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Fertilizer Report

August 1 to December 31, 1921

JAMES W. KELLOGG, Chief Chemist

BUREAU OF CHEMISTRY



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PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Chemistry

PRODUCTS ANALYZED

OFFICIAL SAMPLES SECURED BY SPECIAL AGENTS

FERTILIZERS

FEEDING STUFFS

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SPECIAL SAMPLES FOR RESIDENTS OF THE STATE

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LETTER OF TRANSMITTAL.

PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF CHEMISTRY

Harrisburg Pa., June 20, 1922

Hon. Fred Rasmussen,
Secretary of Agriculture,
Harrisburg, Pa.

Dear Sir:—I have the honor to transmit herewith for your approval a report of the results of the inspection and chemical analyses of the official samples of commercial fertilizers received from the Special Agents of this Bureau, which were selected from the dealers and selling Agents throughout the State during the Fall inspection season from August 1st to December 31st, 1921.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,
JAMES W. KELLOGG,
Chief Chemist,



FERTILIZER REPORT

August 1 to December 31, 1921.

INTRODUCTION.

Special Agents of the Bureau of Chemistry, during the Fall inspection season, selected from dealers and selling Agents throughout the State 955 official samples of fertilizers, which were submitted with separate reports covering each, showing brand names, names of Manufacturers and Selling Agents, guarantees, methods of labeling and retail selling prices. Of this number 847, representing shipments of 557 different registered brands sold to the trade by 59 manufacturing firms, were analyzed to determine the correctness of guarantees, which were found printed upon sacks or attached cards, as well as shown in registrations. Those samples not analyzed included several brands which had not been registered, where it was found necessary to take action against dealers who had offered them for sale, and duplicate samples of brands not deemed necessary to analyze in order to avoid duplication. The samples analyzed were arranged in six classes, according to their general composition, which, together with the number of samples in each class, were as follows: Complete Fertilizers, 460; Nitrogen and Phosphoric Acid Fertilizers, 94; Ground Bone Fertilizers, 40; Acidulated Phosphate Fertilizers, 127; Rock and Potash Fertilizers, 96; and Miscellaneous Fertilizers, 30. The results of analyses will be found in detail in the Tables, which follow, for each of these classes. Of the total number analyzed 77, or 9.1 per cent., were found deficient in one or more forms of plant food and the number of those deficient in each, together with the samples in each class, which were less than guaranteed, will be found in the paragraph headed "Deficiencies" with Table. This percentage of deficiencies was about half that reported for the fertilizers analyzed during the corresponding Fall season of 1920. Microscopical examinations were made in the case of the brands having the word "Bone" as a part of the brand name and in those containing organic nitrogen wherein it is required that, if such materials as untreated leather, hoof, horn or wool waste be used, the labels show the presence of the same, no violations being noted. In the case of the Complete Fertilizers it was found that more than one-fourth, or 105, were guaranteed to contain from 14 to 20 per cent. of total

plant food and, therefore, these grades were considered as "high formula" brands. An average of these samples gave 1.86 per cent. nitrogen, 10.18 per cent. available phosphoric acid, 4.12 per cent. potash, with an average retail value of \$37.11 a ton, which would give an average value for total plant food of \$2.30 a unit. The remaining samples represented brands containing less than 14 per cent. of total plant food, showing an average of 1.18 per cent. nitrogen, 8.71 per cent. available phosphoric acid and 2.49 per cent. potash, retailing at an average of \$31.38 a ton, which would equal \$2.53 a unit for total plant food. It will be noted that the cost per unit of plant food was 23¢ less in the case of high grade fertilizers. The average retail selling value estimated for each class of fertilizers showed marked reductions compared with those estimated for the five preceding inspection seasons and compared with those received during the Fall of 1920 there were reductions in selling prices of from 24.8 to 31.9 per cent. These average and comparative values are shown in detail in the paragraph which follows, entitled "Average Analyses and Retail Prices", with Table. It will be of interest to point out the wide variations in retail values which occurred in the case of the Complete Fertilizers, where certain brands having the same formula and supplying like amounts of plant food were included. Those brands having the formula 1-8-2, of which there were 56 samples, sold for from \$24.50 to \$40, averaging \$30.51, showing a difference of \$15.50 a ton. The 43 samples of 1-8-1 fertilizers sold for from \$25 to \$37.50 averaging \$29.59, showing a difference of \$12.50 a ton. The 1-8-4 grades, where 47 samples were included, varied from \$28.23 to \$46.75, averaging \$33.39, with a difference of \$18.52 a ton. In the case of Acid Phosphate Fertilizers the minimum retail selling value was \$17 a ton for a brand analyzing 18 per cent; the maximum \$35.20 in a brand analyzing 17.41 per cent. available phosphoric acid, a difference of \$18.20 a ton for fertilizers supplying nearly the same amounts of available phosphoric acid. These illustrations of fluctuations in selling values clearly demonstrate, as has been illustrated in previous reports, the fact that it is not only desirable to pay strict attention to quotations for fertilizers but that the most plant food can be had for the least money where high analysis brands are purchased.

In the following pages will be found "Acknowledgments"; Table I, showing results of analyses of Complete Fertilizers by separate formula grades; "Deficiencies" with table showing classification, number of samples in each and number deficient in each class; "Average Analyses and Retail Prices" with tables, "Key to Tables"; and tables from II to VII, showing the results of the chemical analyses in detail according to each classification.

ACKNOWLEDGMENTS.

The reception and preparation of samples and supervision of the details of the analytical work were in charge of Mr. V. B. Hausknecht, First Assistant Chemist, who also made duplicate analyses and check determinations where required. Assistance in the analytical work and microscopical examinations were by Mr. H. E. Gensler, Assistant Chemist, and the chemical analyses were made by the following Assistant Chemists: Messrs. G. J. Kuhlmann, Jr., F. B. Williams, C. R. Engle, Leroy Pennypacker and W. F. Boath. Mr. W. E. Huber, Clerk, assembled the necessary data for this report and supervised the preparation of Tables and the samples were prepared for analysis by Mr. W. W. Cassel, Laboratory Assistant.

TABLE I.—AVERAGE ANALYSIS OF COMPLETE FERTILIZERS BY FORMULA GRADES.

Formula.	Number of Brands.	Number of Samples.	Nitrogen.	Phosphoric Acid.	Potash.	Price.
1-10-4,	1	1	0.12	10.26	4.33	\$25.00
6-1,	1	1	0.60	6.40	1.73	24.00
7-1,	1	1	0.60	7.89	1.14	26.00
7-2,	2	5	0.77	7.82	1.95	28.68
7-3,	1	1	0.63	7.55	3.48	28.00
8-1,	1	1	0.50	7.59	0.54	30.00
8-1,	4	5	0.58	8.38	1.04	28.66
8-2,	12	3	0.60	8.46	2.24	29.00
8-3,	1	1	0.81	8.19	3.03	30.00
1-7-1,	17	21	0.97	7.57	1.15	28.89
1-7-4,	1	1	1.05	8.81	4.24	34.00
1-8-1,	26	43	0.97	8.62	1.23	29.59
1-8-2,	34	56	0.99	8.62	2.25	30.51
1-8-3,	5	10	0.98	9.15	3.38	29.61
1-8-4,	28	47	0.98	8.62	4.32	33.39
1-8-5,	1	2	0.91	8.15	4.99	34.50
1-9-1,	1	1	0.95	9.96	1.10	30.75
1-9-2,	8	15	1.01	9.53	2.22	32.59
1-9-3,	18	29	1.01	9.72	3.23	31.49
1-9-4,	1	2	1.16	9.86	4.44	34.11
1-10-1,	6	8	1.05	10.36	1.31	30.71
1-10-2,	5	6	0.95	10.53	1.90	32.21
1-9-1,	1	1	1.05	10.63	1.02	32.00
1-7-2,	1	3	1.55	7.68	2.12	31.95
1-7-3,	1	3	1.51	8.08	3.27	34.67
2-7-3,	1	3	1.76	8.16	3.64	28.77
2-8-1,	1	1	1.73	8.47	1.10	27.00
2-8-2,	35	59	1.75	8.58	2.23	33.75
2-8-3,	18	28	1.79	8.59	3.14	35.74
2-8-4,	10	15	1.77	8.86	4.36	35.91
2-8-5,	12	22	1.73	8.92	5.18	37.74
2-8-10,	3	4	1.78	8.24	10.37	47.75
2-9-3,	3	3	1.89	9.67	3.27	35.50
2-9-5,	1	1	1.75	9.72	5.07	...
2-10-2,	4	5	1.80	10.70	2.38	33.29
2-10-4,	6	12	1.75	10.62	4.30	35.41
2-12-2,	17	28	1.81	12.61	2.26	36.56
3-8-3,	4	4	2.59	9.02	3.36	38.69
3-8-4,	2	2	2.67	9.06	4.36	40.63
3-8-5,	1	1	2.51	8.80	5.18	38.50
3-9-2,	1	1	2.86	9.37	2.34	36.50
4-8-4,	1	1	3.67	8.50	4.41	39.25
4-8-6,	1	1	2.91	9.42	8.35	45.25
4-8-7,	1	1	2.70	8.92	5.83	...
5-8-7,	1	1	3.50	7.91	7.13	50.00
Totals,	291	460	1.34	9.04	2.86	\$32.88

DEFICIENCIES.

Of the total number of samples received during the Fall season, 77, or 9.1 per cent., were deficient in one or more forms of plant food, showing a slight decrease in the number of failures to meet guarantees, compared with the preceding Spring samples and about half of the number of deficiencies compared with the fertilizers received during the Fall of 1920. In many cases the deficiencies in one element were balanced by overages in another, the majority exceeding their guarantees. These deficiencies are noted in the tables showing results of analyses by an asterik (*) prefixed to the percentages found. Only those were considered deficient where they were found, upon analysis, to be .2 per cent. or more below their guarantees and in the case of guarantees of .50 per cent. or less, deficiencies were noted in those cases where they were .10 per cent. or more below their guarantees. Of the 615 guaranteed for nitrogen, 13, or 2.1 per cent., were deficient; 38, or 4.9 per cent., of the 779 samples having available phosphoric acid guarantees were deficient and of the 692 containing potash, 26, or 3.8 per cent., were deficient. There were 49 guaranteed for total phosphoric acid and 6, or 12.2 per cent., of these failed to meet their guarantees. Taking the fertilizers as a group there were 11.3 per cent. of the Complete Fertilizers, 7.4 per cent. of Nitrogen and Phosphoric Acid Fertilizers, 12.5 per cent. of the Ground Bone Fertilizers, 9.4 per cent. of the Rock and Potash Fertilizers, and 14.3 per cent. of the Miscellaneous Fertilizers, which were deficient in one or more forms of plant food, compared with their guarantees. The following Table will show the number of samples of each class and those deficient in nitrogen, phosphoric acid and potash:

Classes of Fertilizers.	Number of samples.	Deficient in nitrogen.	Deficient in available phosphoric acid.	Deficient in Potash.
Complete fertilizers,	460	7	29	21
Nitrogen and phosphoric acid fertilizers,	94	†3	4	...
Ground bone fertilizers,	40	...	*5	...
Acidulated phosphate fertilizers,	127
Rock and potash fertilizers,	96	...	5	4
Miscellaneous fertilizers,	30	3	†*1	1
Totals,	847	13	44	26

*Total phosphoric acid.

†One sample not guaranteed. Compared with registered guarantee.

AVERAGE ANALYSES AND RETAIL PRICES.

The average compositions of the five classes of fertilizers, compared with the averages estimated for the same classes analyzed during recent preceding inspection seasons will show no marked differences with the possible exception that in the case of complete Fertilizers the average available phosphoric acid and potash contents were slightly higher and the average potash in the Rock and Potash Fertilizers was .53 per cent. higher than estimated for the Spring of 1921 brands of these respective classes.

The average retail selling prices, however, show decided reductions compared with the average values estimated for the brands received during the Spring and Fall inspection seasons of 1919 and 1920 and the Spring of 1921. Compared with the preceding Fall of 1920 brands the following percentage reductions for each class were noted as follows: Complete Fertilizers, 29.8 per cent.; Nitrogen and Phosphoric Acid Fertilizers, 24.8 per cent.; Ground Bone Fertilizers, 31.4 per cent.; Acidulated Phosphate Fertilizers, 31.9 per cent. and Rock and Potash Fertilizers, 26.4 per cent. The estimated average retail unit values will show corresponding reductions.

In order that some idea of the average retail unit values for nitrogen, phosphoric acid and potash can be had, values for these elements were estimated by making use of the average available phosphoric acid and retail selling prices for the Acid Phosphate Fertilizers, which gave a value of \$1.33 a unit, or 6 $\frac{2}{3}$ ¢ a pound, for phosphoric acid. The value of nitrogen in the Nitrogen and Phosphoric Acid Fertilizers, considering \$1.33 as the unit value of phosphoric acid, gave \$12.18 a unit, or 60¢ a pound, for nitrogen. By making use of these two values, as applied to the average composition of the Complete Fertilizers, a value of \$1.59 a unit, or 8¢ a pound, was estimated for water soluble potash. In a similar manner, by using the value of \$1.33 a unit for phosphoric acid a value of \$4.25 a unit, or 21¢ a pound, is found for potash in the Rock and Potash Fertilizers. By making use of the same value for phosphoric acid and \$4.25 a unit for potash, another value of \$6.49 a unit, or 32¢ a pound, was found for nitrogen, as supplied by the Nitrogen and Phosphoric Acid Fertilizers. These estimated average retail unit values, therefore, would be as follows: For nitrogen, from \$6.49 to \$12.18 a unit; for available phosphoric acid, \$1.33 a unit; and for water soluble potash, from \$1.59 to \$4.25 a unit. In the following Table will be found the average compositions and retail selling values of the several classes

of fertilizers included in this report. The average values reported for the preceding Spring of 1921 and Fall of 1920 brands, in order that the fluctuations in values may be compared are also included.

	Complete Fertilizers.	Nitrogen and phosphoric acid fertilizers, (dissolved bones, etc.).	Ground bone fertilizers.	Acidulated phosphate fertilizers.	Rock and potash fertilizers.
Number of samples,	460	94	40	127	96
Moisture,	4.08	2.99	4.44	2.29	3.51
Total nitrogen,	1.34	1.43	3.16		
Total phosphoric acid,	10.14	12.19	23.91	17.38	11.35
Available phosphoric acid,	9.04	10.63		16.60	10.60
Insoluble phosphoric acid,	1.10	1.56		0.78	0.75
Potash,	2.86				3.66
Mechanical analysis of bone:					
Fine,			63		
Coarse,			37		
Selling price,	\$32.88	\$31.56	\$43.53	\$22.07	\$29.66
Average selling price, Spring 1921,	\$39.36	\$34.45	\$55.02	\$25.20	\$33.73
Average selling price, Fall 1920,	\$46.82	\$41.96	\$63.43	\$32.43	\$40.31

KEY TO TABLES.

The following tables include the detailed results of chemical analyses of each sample. All samples were given a chemist's number as shown in the extreme left and right hand columns and are grouped in alphabetical order of manufacturers and brand names. Each class is shown in separate tables and the following information will serve as a key to these tables:

The asterisk (*) indicates the cases where total nitrogen, available phosphoric acid and total potash were deficient to the extent of .2 per cent. or more below their respective guarantees. In cases where the guarantees were .5 per cent. or less the deficiencies noted are where the amount was .1 per cent. or more below the guarantees.

Order of results of analysis: Moisture, Total Nitrogen found and guaranteed, Total Phosphoric Acid found and guaranteed; Available Phosphoric Acid found and guaranteed; Insoluble Phosphoric Acid found and guaranteed, Total Potash found and guaranteed. The Potash is also shown in the Muriate and Sulphate forms.

To determine the formula of any brand, as guaranteed, multiply Total Nitrogen guaranteed by 1.2158 to obtain Ammonia and then use this figure and the guarantees for Available Phosphoric Acid and Total Potash. For example, Nitrogen guarantee equals .82% (.82 x 1.215=1%). Ammonia equals 1% Available Phosphoric Acid 8% Potash 1%. Formula therefore is 1-8-1.

Complete Fertilizers, Table II, furnishing Nitrogen, Phosphoric Acid and Potash.

Nitrogen and Phosphoric Acid Fertilizers, Table III, including Dissolved Bones and other like products.

Ground Bone Fertilizers, Table IV, furnishing Nitrogen and Phosphoric Acid.

Acidulated Phosphate Fertilizers, Table V, furnishing Phosphoric Acid.

Rock and Potash Fertilizers, Table VI, furnishing Phosphoric Acid and Potash.

Miscellaneous Fertilizers, Table VII, including Nitrate of Soda, Sulphate of Ammonia, Tankage, Muriate of Potash, Manure Salt and miscellaneous mixtures.

TABLE II.—COMPLETE
Furnishing Nitrogen.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2620	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	Harvey Detwiler, Chester Springs, -----
2144	Allen's Special For Wheat and Grass, -----	L. K. Beers, Bedminster, -----
	Cewer's Square Brand Farm and Garden Phosphate.	
1849	Bradley's B. D. Guano, -----	J. S. Cole, Millville, -----
1851	Bradley's Half Century Fertilizer Revised, -----	J. S. Cole, Millville, -----
2164	Bradley's Niagara Phosphate, -----	J. H. Sheffer, Knox, -----
1784	Canton Chemical Baker's Special Wheat Corn & Grass Mixture, -----	A. H. Keeley & Son, Schwencksville, -----
1665	Canton Chemical Baker's Special Wheat Corn & Grass Mixture, -----	King Brothers, Uniontown, -----
1781	Canton Chemical Eagle Phosphate, -----	A. H. Keeley & Son, Schwencksville, -----
2163	Canton Chemical Resurgam Guano, -----	Raymond Evert, Mahanoy City, -----
1782	Canton Chemical Resurgam Guano, -----	A. H. Keeley & Son, Schwencksville, -----
2057	Josiah Cope's Wheat & Grass Special, -----	Jones Eavenson, Christiana, -----
1817	Crescent Complete Manure, -----	McHenry & Masteller, Bloomsburg, -----
1526	Crocker's Complete Manure, -----	I. W. Bunnell, Pleasant Mount, -----
1124	Crocker's Harvest Jewel Fertilizer, -----	I. W. Bunnell, Pleasant Mount, -----
2167	Crocker's Universal Grain Grower, -----	B. F. McCurdy, Grove City, -----
1673	Detrick's Imperial Compound, -----	Jeff Altfather, Berlin, -----
1883	Detrick's Imperial Compound, -----	Czar Beerbower, Somerfield, -----
1792	Detrick's Kangaroo Komplete Kompond, -----	John Greenleaf, Quarryville, -----
1992	Detrick's Kangaroo Komplete Kompond, -----	Miller & Maust, Elk Lick, -----
1658	Detrick's Paragon Ammoniated Phosphate and Potash, -----	H. C. Berritt's Sons, Somerset, -----
1911	W. S. Farmer's General Crop Grower, -----	C. L. King, New Enterprise, -----
2191	W. S. Farmer's General Crop Grower, -----	Jeremiah Thomas, Somerfield, -----
1423	Great Eastern General, -----	H. K. & D. M. Nell, Fleetwood, -----
1849	Great Eastern Special Crop Fertilizer, -----	David F. Climer, Clayton, -----
1125	High Grade Crop Producer, -----	I. W. Bunnell, Pleasant Mount, -----
14.7	Lister's A. B. C. Fertilizer (Abundance Brand Compound). -----	B. B. Fox, Lyons Station, -----
2155	Lister's Ammoniated Dissolved Super-Phosphate, -----	H. Y. Pickering, Yardley, -----
1519	Lister's Big Crop Grower, -----	E. J. Hull, Olyphant, -----
1547	Lister's Corn and Potato Fertilizer, -----	W. McClain, Moseow, -----
2032	Lister's Fish Brand Fertilizer, -----	F. E. Bailey, Northbrook, -----
1428	Lister's Fish Brand Fertilizer, -----	B. B. Fox, Lyons Station, -----
2154	Lister's Fish Brand Fertilizer, -----	H. Y. Pickering & Co., Yardley, -----
2093	Lister's G. Brand, -----	F. E. Bailey, Northbrook, -----
1716	Lister's G. Brand, -----	Wm. Fehr, Cressona, -----
1407	Lister's G. Brand, -----	Knecht Milling Co., Mill Hall, -----
1424	Lister's Golden Sheaf, -----	B. B. Fox, Lyons Station, -----
2197	Lister's Golden Sheaf, -----	N. J. Norton, New Albany, -----
1774	Lister's Harvest Queen Phosphate Revised, -----	Wm. H. Fritz, Berwyn, -----
1773	Lister's Special Crop Producer, -----	Wm. H. Fritz, Berwyn, -----
2113	Lister's Special Crop Producer, -----	R. D. Sames, Coopersburg, -----
1715	Lister's Special Wheat Fertilizer, -----	Wm. Fehr, Cressona, -----
1772	Lister's Special Wheat Fertilizer, -----	Wm. H. Fritz, Berwyn, -----
2112	Lister's Special Wheat Fertilizer, -----	R. D. Sames, Coopersburg, -----
1956	Lister's Special Wheat Fertilizer, -----	Levi K. Ziegler, Litzitz, -----
1955	Lister's Squirrel Brand Fertilizer, -----	Levi K. Ziegler, Litzitz, -----
1426	Lister's Wheat & Rye Fertilizer, -----	B. B. Fox, Lyons Station, -----
1526	Ludlum's Ceerops Harvest Queen, -----	Curtis Bushey, Clear Springs, -----
1569	Ludlum's Ceerops No. 2 for Grain & Grass, -----	Edward Diehl, Shippensburg, -----
1912	Ludlum's Ceerops Palmetto, -----	Jacob Fleisher, Shermansdale, -----
1911	Ludlum's Ceerops Standard Potash, -----	Jacob Fleisher, Shermansdale, -----
1907	Matchless Potash Manure, -----	Wm. B. Barnitz, Carlisle, -----
1947	Moro-Phillips C. & G. Complete Fertilizer, -----	Eli F. Hornberger, Ephrata, -----
1948	Moro-Phillips Standard Guano, -----	Eli F. Hornberger, Ephrata, -----
1537	Nassau General Favorite, -----	A. A. Chamberlain, Gouldsboro, -----
1949	Nassau General Favorite, -----	J. L. Graybill, Manheim, -----
1941	Nassau Potato Manure, -----	J. L. Graybill, Manheim, -----
1929	Nassau Wheat & Grass Grower, -----	J. L. Graybill, Manheim, -----

FERTILIZERS.

Phosphoric Acid and Potash.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.						Selling price per ton at place of selection.	Chemist's number.		
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.		Guaranteed.		Found.					
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Present as muriate.	Present as sulphate.	Found.	Guaranteed.				
2.55	1.10	0.82	8.99	8.00	7.45	7.00	1.54	1.00	1.48	1.00	1.48	1.00	2.19	2.19	29.00	2029		
1.82	2.00	1.65	10.56	9.00	8.74	8.00	1.82	1.00	2.04	2.00	2.04	2.00	31.75	32.00	2143			
3.19	0.92	0.82	9.98	9.00	8.86	8.00	1.12	1.00	4.03	4.00	4.03	4.00	34.60	33.30	1840			
4.40	1.82	1.65	10.52	9.00	8.60	8.00	2.02	1.00	3.36	3.00	3.36	3.00	32.00	31.15	1841			
1.10	1.00	0.82	9.18	8.00	7.68	7.00	1.50	1.00	1.15	1.00	1.15	1.00	34.00	33.00	2104			
4.01	1.10	0.82	10.92	10.00	9.16	9.00	1.76	1.00	3.18	2.00	3.18	2.00	34.00	33.00	1784			
5.00	1.03	0.82	9.80	10.00	8.07	9.00	1.82	1.00	2.19	2.00	2.19	2.00	35.00	35.00	1665			
2.20	0.87	0.82	8.58	8.00	7.08	7.00	0.90	1.00	*0.70	1.00	0.70	1.00	30.00	30.00	1781			
1.48	0.93	0.82	9.60	9.00	8.84	8.00	0.76	1.00	4.49	4.00	4.49	4.00	36.00	36.00	2060			
3.82	1.61	0.82	10.16	9.00	8.62	8.00	1.54	1.00	4.13	4.00	4.13	4.00	35.00	35.00	1782			
1.42	0.94	0.82	9.90	9.00	8.16	8.00	1.74	1.00	0.98	1.00	0.98	1.00	27.00	27.00	2057			
3.81	1.74	1.65	10.89	9.00	8.95	8.00	1.94	1.00	2.79	3.00	2.79	3.00	35.00	35.00	1817			
4.32	0.90	0.82	9.77	9.00	8.47	8.00	1.50	1.00	4.33	4.00	4.33	4.00	45.00	45.00	1326			
4.14	1.70	1.65	9.62	9.00	8.20	8.00	1.42	1.00	2.07	2.00	2.07	2.00	35.00	35.00	1324			
1.15	0.91	0.82	10.11	9.00	8.87	8.00	1.24	1.00	2.60	2.00	2.60	2.00	35.15	35.15	2103			
3.25	1.01	0.82	9.70	9.00	8.92	8.00	0.78	1.00	2.07	2.00	2.07	2.00	34.00	34.00	1072			
2.12	1.04	0.82	10.18	9.00	8.84	8.00	1.44	1.00	2.12	2.00	2.12	2.00	30.00	30.00	1883			
2.52	1.70	1.65	10.10	9.00	8.60	8.00	1.50	1.00	3.03	3.00	3.03	3.00	34.00	34.00	1902			
3.32	1.63	1.65	10.16	9.00	9.30	8.00	0.86	1.00	3.10	3.00	3.10	3.00	36.00	36.00	1889			
4.11	0.95	0.82	9.24	8.00	7.40	7.00	1.84	1.00	1.10	1.00	1.10	1.00	30.00	30.00	1658			
1.80	0.98	0.82	8.92	8.00	6.98	7.00	1.94	1.00	1.06	1.00	1.06	1.00	27.00	27.00	1931			
4.02	1.00	0.82	8.56	8.00	7.92	7.00	0.64	1.00	1.07	1.00	1.07	1.00	30.00	30.00	2191			
5.22	0.83	0.82	9.19	9.00	8.53	8.00	0.66	1.00	4.31	4.00	4.31	4.00	35.00	35.00	1423			
4.25	0.95	0.82	11.99	11.00	10.75	10.00	1.84	1.00	1.31	1.00	1.31	1.00	34.00	34.00	1849			
2.00	1.80	1.65	9.70	9.00	9.18	8.00	0.52	1.00	4.27	4.00	4.27	4.00	45.00	45.00	1323			
9.62	1.65	1.65	14.11	13.00	12.79	12.00	1.32	1.00	2.18	2.00	2.18	2.00	34.44	34.44	1427			
1.50	1.70	1.65	10.14	9.00	8.76	8.00	1.78	1.00	3.19	3.00	3.19	3.00	37.00	37.00	2156			
10.48	1.50	1.65	10.65	9.00	9.59	8.00	1.06	1.00	4.00	4.00	4.00	4.00	26.00	26.00	1539			
6.91	2.01	1.65	11.62	9.00	9.02	8.00	2.60	1.00	3.03	3.00	3.03	3.00	45.00	45.00	1547			
3.20	1.09	0.82	11.37	10.60	9.93	9.00	1.44	1.00	2.09	2.00	2.09	2.00	32.00	32.00	2002			
6.00	1.00	0.82	10.59	10.00	9.45	9.00	1.14	1.00	2.41	2.00	2.41	2.00	28.19	28.19	1128			
2.35	0.95	0.82	10.75	10.00	9.07	9.00	1.68	1.00	2.54	2.00	2.54	2.00	31.75	31.75	2154			
2.02	1.01	0.82	9.49	9.00	8.79	8.00	0.70	1.00	4.02	4.00	4.02	4.00	33.00	33.00	2003			
2.05	1.05	0.82	9.80	9.00	8.46	8.00	1.34	1.00	4.72	4.00	4.72	4.00	1716	1716				
4.07	0.83	0.82	10.01	9.00	8.27	8.00	1.64	1.00	4.36	4.00	4.36	4.00	33.00	33.00	1467			
3.85	0.50	0.82	8.97	9.00	8.23	8.00	0.74	1.00	1.18	1.00	1.18	1.00	26.19	26.19	1424			
2.55	1.03	0.82	10.70	9.00	9.18	8.00	1.52	1.00	1.50	1.00	1.50	1.00	36.00	36.00	2197			
4.02	1.00	0.82	11.04	10.00	9.54	9.00	1.50	1.00	3.29	3.00	3.29	3.00	32.00	32.00	1774			
2.88	0.93	0.82	9.04	8.00	7.70	7.00	1.34	1.00	1.09	1.00	1.09	1.00	27.50	27.50	1773			
1.15	1.06	0.82	9.24	8.00	7.76	7.00	1.48	1.00	1.25	1.00	1.25	1.00	28.00	28.00	2113			
5.37	1.80	1.65	9.58	9.00	8.46	8.00	1.12	1.00	3.06	3.00	3.06	3.00	31.75	31.75	1715			
5.04	1.72	1.65	10.26	9.00	8.78	8.00	1.48	1.00	3.10	3.00	3.10	3.00	36.50	36.50	1772			
1.65	1.75	1.65	10.45	9.00	8.71	8.00	1.74	1.00	3.16	3.00	3.16	3.00	35.00	35.00	212			
2.95	1.88	1.65	9.49	9.00	8.17	8.00	1.52	1.00	3.19	3.00	3.19	3.00	33.00	33.00	1956			
5.22	1.60	0.82	9.49	9.00	8.13	8.00	1.76	1.00	1.98	2.00	1.98	2.00	28.06	28.06	1955			
10.11	1.50	1.65	11.91	11.00	10.97	10.00	0.94	1.00	2.09	2.00	2.09	2.00	32.94	32.94	1426			
5.41	1.00	0.82	9.50	9.00	7.40	8.00	2.10	1.00	2.13	2.00	2.13	2.00	28.22	28.22	1520			
4.47	0.90	0.82	8.72	8.00	7.40	7.00	1.32	1.00	1.01	1.00	1.01	1.00	26.00	26.00	1569			
1.37	0.92	0.82	9.72	9.00	8.04	8.00	1.68	1.00	1.12	1.00	1.12	1.00	31.12	31.12	1912			
1.92	1.00	0.82	9.93	9.00	8.67	8.00	1.26	1.00	4.60	4.00	4.60	4.00	31.50	31.50	1907			
1.30	1.96	1.65	9.44	9.00	8.74	8.00	0.70	1.00	2.12	2.00	2.12	2.00	20.00	20.00	1947			
2.24	1.03	0.82	10.17	9.00	8.23	8.00	1.84	1.00	2.33	2.00	2.33	2.00	33.00	33.00	1948			
2.07	1.03	0.82	9.68	9.00	8.70	8.00	0.98	1.00	4.77	4.00	4.77	4.00	34.00	34.00	1537			
5.93	1.25	0.82	9.25	9.00	8.33	8.00	1.02	1.00	*3.69	4.00	3.69	4.00	46.75	46.75	1940			
4.05	0.98	0.82	9.34	9.00	8.46	8.00	0.88	1.00	4.66	4.00	4.66	4.00	34.00	34.00	1941			
3.00	1.81	1.65	9.39	9.00	8.63	8.00	0.76	1.00	4.76	4.00	4.76	4.00	34.00	34.00	1939			
1.67	0.90	0.82	10.46	9.00	9.18	8.00	1.28	1.00	2.26	2.00	2.26	2.00	32.00	32.00				

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2114	North Western Complete Compound, -----	Erwin Dieterly, Springtown, -----
2115	North Western Shawnee Phosphate, -----	Erwin Dieterly, Springtown, -----
2135	Patapsee Coon Brand Guano, -----	Geo. Itterly, Pen Argyl, -----
2136	Patapsee Money Maker, -----	Geo. Itterly, Pen Argyl, -----
1614	Perkins Special Manure, -----	J. H. Tingley, Coatesville, -----
1874	Pollock's Bull's Eye Guano, -----	Barron & Miller, Friedens, -----
1297	Pollock's Corn, Wheat & Tomato Guano, -----	Jay Blackburn, Cessna, -----
1519	Pollock's Crop Invigorator, -----	Geo. A. Dick, Dillsburg, -----
1452	Pollock's Crop Invigorator, -----	J. H. Scott, Petersburg, -----
1872	Pollock's Special Potato & Tobacco Fertilizer.	Barron & Miller, Friedens, -----
1518	Pollock's Special Potato & Tobacco Fertilizer.	Geo. A. Dick, Dillsburg, -----
1929	Pollock's Special Potato & Tobacco Fertilizer.	Albert Dively, Bedford, -----
1871	Pollock's Special Wheat and Corn Fertilizer.	Barron & Miller, Friedens, -----
1296	Pollock's Special Wheat and Corn Fertilizer.	Jay Blackburn, Cessna, -----
1842	Reese's Pilgrim Fertilizer, -----	Irwin H. Levengood, Boyertown, -----
1989	Royal Potash Mixture, -----	John Greenleaf, Quarryville, -----
1922	Schaal-Sheldon's Farmers Favorite, -----	J. S. Jackson, Everett, -----
1909	Sharpless & Carpenter's No. 2 For Grain and Grass.	Wm. B. Barnitz, Carlisle, -----
1908	Sharpless & Carpenter's Royal Spring Mixture.	Wm. B. Barnitz, Carlisle, -----
1780	Susquehanna Ammoniated Phosphate Revised.	A. H. Keeley & Son, Schwencksville, -----
1264	Susquehanna Ammoniated Phosphate Revised.	D. H. Meyers & Son, Annville, -----
1263	Susquehanna Choice Mixture, -----	D. H. Meyers & Son, Annville, -----
2051	Susquehanna Potato & Tobacco Phosphate, -----	Joe Kettering, Palmyra, -----
1645	Susquehanna Sure Crop, -----	Henry Kreider, Campbelltown, -----
1783	Susquehanna XXV Phosphate, -----	A. H. Keeley & Son, Schwencksville, -----
1644	Susquehanna XXV Phosphate, -----	Henry Kreider, Campbelltown, -----
1999	The Pathfinder 1920, -----	John Greenleaf, Quarryville, -----
1573	Tip Top Fertilizer, -----	Marion Elevator Co., Marion, -----
1564	Tip Top Fertilizer, -----	Walker, Diehl & Walker, Chambersburg, -----
1979	J. E. Tygert's Golden Harvest Phosphate, -----	Hiestand Brothers, Manheim, -----
1887	J. E. Tygert's Golden Harvest Phosphate, -----	J. B. Longencker, Annville, -----
1740	J. E. Tygert's Golden Harvest Phosphate, -----	C. Travis, East Stroudsburg, -----
1739	J. E. Tygert's Popular Phosphate, -----	C. Travis, East Stroudsburg, -----
1480	J. E. Tygert's Victor Crop Grower, -----	F. A. Ackley, Westfield, -----
2028	Tyger-Allen's Star Brand Phosphate Revised.	Harvey Detwiler, Chester Springs, -----
1578	Whann's Chester Valley Complete Fertilizer.	Millard Schwalm, Valley View, -----
2151	Whann's Chester Valley Fish & Potash Fertilizer.	F. D. Hartzells Sons Co., Chalfont, -----
2179	Wheeler's Corn Fertilizer, -----	James L. Dague, West Brownsville, -----
1816	Williams & Clark's Elk Brand, -----	McHenry & Masteller, Bloomsburg, -----
1851	Williams & Clark's Matchless Fertilizer, -----	Edward Grim, Barto, -----
1818	Williams & Clark's Royal Phosphate Revised.	McHenry & Masteller, Bloomsburg, -----
1949	Wooldridge's Champion Stag Phosphate, -----	S. H. Stump, Hopeland, -----
1516	Wooldridge's Champion Stag Phosphate, -----	Robert Wentz, Wellsville, -----
1437	Wooldridge's Farmers Favorite Cereal Compound Revised.	Clarence Stump, Grimville, -----
1523	Wooldridge's Fish Mixture No. 1, -----	Robert Wentz, Wellsville, -----
1513	Wooldridge's Triangle Brand, -----	Geo. A. Dick, Dillsburg, -----
1431	Wooldridge's Triangle Brand, -----	J. Alfred Tuplin, Shamrock, -----
1514	Wooldridge's Triumph Phosphate Revised, -----	Robert Wentz, Wellsville, -----
1462	Zell's Ammoniated Superphosphate, -----	H. F. Blair, Huntingdon, -----
1794	Zell's Economizer Phosphate, -----	John W. Root, Kimberton, -----
1793	Zell's Hustler Phosphate, -----	John W. Root, Kimberton, -----
1980	Zell's Hustler Phosphate, -----	J. P. Weber, Penryn, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.						Chemist's number.		
	Guaranteed.	Found.	Total.			Available.		Insoluble.		Guaranteed.			Found.			Present as muriate.	Present as sulphate.
			Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Selling price per ton at place of selection.		
2.27	1.06	0.82	9.91	9.00	8.61	8.00	1.30	1.00	*2.88	4.00	2.88	-----	30 75	2114			
2.08	1.90	1.65	10.19	9.00	8.75	8.00	1.44	1.00	4.93	4.00	4.93	-----	34 75	2115			
2.82	1.07	0.82	10.73	10.00	9.25	9.00	1.48	1.00	2.27	2.00	2.27	-----	29 50	2135			
2.75	0.95	0.82	10.03	9.00	8.53	8.00	1.50	1.00	2.30	2.00	2.30	-----	28 50	2136			
4.74	1.03	0.82	9.95	9.00	8.09	8.00	1.86	1.00	1.17	1.00	1.17	-----	29 50	1614			
2.89	1.99	1.65	9.93	9.00	8.25	8.00	1.68	1.00	2.10	2.00	2.10	-----	33 65	1874			
8.05	0.80	0.82	9.31	9.00	*7.40	8.00	1.91	1.00	1.07	1.00	1.07	-----	29 00	1297			
3.78	0.98	0.82	10.36	9.00	8.56	8.00	1.80	1.00	4.03	4.00	4.03	-----	31 25	1515			
4.22	0.78	0.82	9.75	9.00	8.31	8.00	1.44	1.00	4.69	4.00	4.69	-----	1452				
1.92	1.88	1.65	9.64	9.00	8.42	8.00	1.22	1.00	4.58	4.00	4.58	-----	36 15	1872			
6.16	1.70	1.65	9.84	9.00	9.06	8.00	0.78	1.00	4.20	4.00	4.20	-----	35 75	1518			
6.10	1.82	1.65	9.83	9.00	9.07	8.00	0.76	1.00	3.97	4.00	3.97	-----	-----	1929			
3.59	1.10	0.82	10.50	9.00	8.86	8.00	1.64	1.00	2.37	2.00	2.37	-----	29 90	1871			
6.47	0.86	0.82	10.32	9.00	8.30	8.00	2.02	1.00	1.98	2.00	1.98	-----	30 00	1296			
2.35	0.82	0.82	9.49	9.00	8.65	8.00	0.84	1.00	4.26	4.00	4.26	-----	-----	1842			
2.57	0.93	0.82	8.86	9.00	8.22	8.00	0.64	1.00	2.24	2.00	2.24	-----	29 00	1889			
4.37	1.01	0.82	9.73	9.00	8.83	8.00	0.90	1.00	*1.79	2.00	1.30	0.49	32 00	1922			
2.10	0.89	0.82	9.22	8.00	8.08	7.00	1.14	1.00	1.71	1.00	1.71	-----	26 50	1469			
1.50	1.01	0.82	9.75	9.00	8.61	8.00	1.14	1.00	2.29	2.00	2.29	-----	28 00	1908			
2.55	1.96	1.65	10.33	9.00	8.79	8.00	1.54	1.00	2.25	2.00	2.25	-----	37 50	1780			
6.55	1.87	1.65	9.67	9.00	8.17	8.00	1.50	1.00	2.09	2.00	2.09	-----	-----	1264			
6.33	0.95	0.82	9.89	9.00	*7.61	8.00	2.28	1.00	2.00	2.00	2.00	-----	-----	1263			
2.60	1.75	1.65	9.45	9.00	8.09	8.00	1.56	1.00	3.02	3.00	3.02	-----	-----	2031			
4.82	0.95	0.82	10.62	10.00	9.96	9.00	0.66	1.00	1.10	1.00	1.10	-----	30 75	1645			
5.05	1.08	0.82	9.82	9.00	8.68	8.00	1.14	1.00	1.18	1.00	1.18	-----	30 00	1783			
3.20	0.90	0.82	9.18	9.00	*7.59	8.00	1.59	1.00	1.07	1.00	1.07	-----	29 75	1644			
2.87	0.90	0.82	11.67	10.00	10.53	9.00	1.14	1.00	2.98	3.00	2.98	-----	30 00	1990			
4.80	0.95	0.82	10.41	9.00	8.97	8.00	1.44	1.00	3.41	3.00	3.41	-----	-----	1573			
4.25	1.01	0.82	9.49	9.00	8.05	8.00	1.44	1.00	3.04	3.00	3.04	-----	27 50	1564			
2.02	1.00	0.82	10.06	9.00	9.00	8.00	1.06	1.00	2.21	2.00	2.21	-----	31 50	1979			
6.38	0.95	0.82	9.69	9.00	*7.56	8.00	2.13	1.00	2.06	2.00	2.06	-----	-----	1387			
2.40	1.05	0.82	10.26	9.00	8.44	8.00	1.82	1.00	*1.71	2.00	1.71	-----	30 00	1740			
8.14	1.05	0.82	8.52	8.00	7.56	7.00	0.96	1.00	1.09	1.00	1.09	-----	28 00	1739			
3.14	1.00	0.82	9.80	9.00	8.80	8.00	1.00	1.00	4.26	4.00	4.26	-----	43 00	1480			
2.45	1.87	1.65	9.61	9.00	8.29	8.00	1.32	1.00	3.26	3.00	3.26	-----	36 00	2028			
3.02	1.80	1.65	9.90	9.00	8.22	8.00	1.68	1.00	3.19	3.00	3.19	-----	-----	1578			
2.30	2.17	1.65	11.45	11.00	9.95	10.00	1.50	1.00	2.52	2.00	2.52	-----	35 00	2151			
1.17	1.95	1.65	10.49	9.00	8.99	8.00	1.50	1.00	2.48	2.00	2.48	-----	33 50	2179			
3.52	1.04	0.82	9.44	9.00	8.50	8.00	0.94	1.00	4.03	4.00	4.03	-----	32 50	1816			
8.64	1.58	1.65	9.31	9.00	8.79	8.00	0.52	1.00	2.00	2.00	2.00	-----	32 00	1851			
2.74	1.00	0.82	10.06	9.00	8.78	8.00	1.28	1.00	2.51	2.00	2.51	-----	30 00	1818			
2.55	1.00	0.82	10.26	10.00	*8.68	9.00	1.58	1.00	2.11	2.00	2.11	-----	-----	1949			
5.38	0.90	0.82	10.91	10.00	*8.67	9.00	2.24	1.00	2.09	2.00	2.09	-----	-----	1516			
4.12	0.90	0.82	8.20	8.00	7.58	7.00	0.62	1.00	1.08	1.00	1.08	-----	27 00	1437			
4.95	0.86	0.82	9.18	8.00	7.24	7.00	1.94	1.00	1.12	1.00	1.12	-----	-----	1523			
4.40	0.95	0.82	10.10	9.00	8.38	8.00	1.72	1.00	4.40	4.00	4.40	-----	31 25	1513			
4.29	0.84	0.82	9.31	9.00	8.63	8.00	0.68	1.00	3.86	4.00	3.86	-----	-----	1431			
5.83	1.74	1.65	10.14	9.00	8.42	8.00	1.72	1.00	3.01	3.00	3.01	-----	-----	1514			
5.75	1.79	1.65	10.34	9.00	8.84	8.00	1.50	1.00	2.62	2.00	2.62	-----	28 10	1462			
2.27	1.01	0.82	8.92	9.00	8.26	8.00	0.66	1.00	2.30	2.00	2.30	-----	29 00	1794			
4.76	0.91	0.82	10.88	10.00	9.06	9.00	1.82	1.00	3.03	3.00	3.03	-----	31 00	1793			
8.47	0.96	0.82	10.37	10.00	*8.77	9.00	1.60	1.00	3.14	3.00	3.14	-----	1980				

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From--
1657	AMERICAN FERTILIZING COMPANY, BALTIMORE, MD.	
1766	American Ammoniated Crop Compound, -----	John G. Emert, Somerset, -----
2043	American Fish and Potash Compound, -----	Barnett Brothers, Oxford, -----
1655	American Fish and Potash Compound, -----	Jones Eavenson, Christiana, -----
2045	American Grain & Grass Grower, -----	John G. Emert, Somerset, -----
1653	American Grain & Grass Special, -----	Jones Eavenson, Christiana, -----
2044	American Premium Grain & Clover Mix- ture.	John G. Emert, Somerset, -----
	American Special Compound Guano, -----	Jones Eavenson, Christiana, -----
2047	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
1478	Armour's Big Crop Fertilizer 2-8-5, -----	M. L. Bachman, Lebanon, -----
2044	Armour's Big Crop Fertilizer 2-8-5, -----	Horn & Devling, Galton, -----
1094	Armour's Big Crop Fertilizer 2-8-5, -----	Geo. Seligman, Tamaqua, -----
2048	Armour's Big Crop Fertilizer 2-12-2, -----	Ellis W. Hyman, Jersey Shore, -----
1302	Armour's Big Crop Special Mixture, -----	M. L. Bachman, Lebanon, -----
1895	Armour's Crop Grower, -----	Geo. W. Anderson, Cessna, -----
1346	Armour's Crop Grower, -----	J. C. Fulton & Co., Burgettstown, -----
1303	Armour's Grain Grower, -----	Willis Koch, Potts Grove, -----
1896	Armour's Grain Grower, -----	Geo. W. Anderson, Cessna, -----
1718	Armour's Grain Grower, -----	J. C. Fulton & Co., Burgettstown, -----
1551	Armour's Wheat Corn and Oat Special, -----	Hessner & Luckenbill, Friedensburg, -----
2152	Armour's Wheat Corn and Oat Special, -----	H. O. Andrews, Mapleton Depot, -----
1261	Armour's Wheat Corn and Oat Special, -----	F. D. Hartzells Sons Co., Chalfont, -----
1299	Royal Ammoniated, -----	Frank J. Kintzle, Richland, -----
1785	Tuscarora Ammoniated Phosphate, -----	Geo. W. Anderson, Cessna, -----
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	A. F. Leidy, Delphi, -----
1380	Baugh's Animal Base and Potash Com- pound.	Bunting Brothers, Oxford, -----
2184	Baugh's Animal Base and Potash Com- pound.	J. G. Cover, Masontown, -----
1587	Baugh's Animal Base and Potash Com- pound.	W. W. Haas, Pitman, -----
1390	Baugh's Commercial Super Phosphate, -----	A. G. Zellers, Annville, -----
2144	Baugh's Complete Animal Base Fertilizer, -----	L. K. Beers, Bedminster, -----
1879	Baugh's Complete Animal Base Fertilizer, -----	N. H. Blough, Davidsville, -----
1389	Baugh's Complete Animal Base Fertilizer, -----	A. G. Zellers, Annville, -----
1880	Baugh's Economical Crop Producer, -----	N. H. Blough, Davidsville, -----
1493	Baugh's Excelsior Guano, -----	Flock Brothers, Salladasburg, -----
2130	Baugh's Excelsior Guano, -----	Lehigh Exchange, Inc., Germansville, -----
1416	Baugh's Excelsior Guano, -----	Clarence Shellenberger, Fleetwood, -----
1795	Baugh's Fish Mixture, -----	John W. Root, Kimberton, -----
1833	Baugh's General Crop Grower, -----	A. W. Eves, Millville, -----
1892	Baugh's General Crop Grower, -----	A. C. McClure, Burgettstown, -----
1602	Baugh's General Crop Grower, -----	H. A. Mendenhall, Toughkenamon, -----
1388	Baugh's Grand Rapid Guano, -----	A. G. Zellers, Annville, -----
2131	Baugh's Wheat Fertilizer For Wheat and Grass.	Lehigh Exchange, Inc., Germansville, -----
1603	Baugh's Wheat Fertilizer for Wheat and Grass.	H. A. Mendenhall, Toughkenamon, -----
1391	Baugh's Wheat Fertilizer for Wheat and Grass.	A. G. Zellers, Annville, -----
2009	BOWKER FERTILIZER COMPANY, SUB- SIDIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
1469	Bowker's Hill & Drill Phosphate, -----	Newton Lantz, Atglen, -----
	Bowker's Square Brand Farm and Garden Phosphate.	Emporium Supply Co., Emporium, -----
1470	Bowker's Staple Phosphate, -----	Emporium Supply Co., Emporium, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.				PHOSPHORIC ACID.						POTASH.				Chemist's number.		
	Found.		Guaranteed.		Total.			Available.		Insoluble.		Found.			Guaranteed.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
4.80	1.01	0.82	10.18	9.00	8.70	8.00	1.48	1.00	2.39	2.00	2.19	-----	-----	-----	-----	1657	
5.42	2.01	1.65	11.02	9.00	8.74	8.00	2.28	1.00	3.15	3.00	3.15	-----	56 00	-----	1766		
2.85	2.00	1.65	11.16	9.00	8.64	8.00	2.52	1.00	3.53	3.00	3.33	-----	35 00	-----	2043		
6.24	1.01	0.82	11.35	10.00	9.47	9.00	1.88	1.00	3.00	3.00	3.00	-----	-----	-----	-----	1655	
2.42	0.50	0.41	8.99	8.00	7.83	7.00	1.10	1.00	1.14	1.00	1.14	-----	85 00	-----	2045		
3.30	1.69	1.65	13.95	13.00	12.71	12.00	1.24	1.00	2.29	2.00	1.40	0.80	-----	-----	-----	1656	
1.87	0.63	0.41	8.49	8.00	7.55	7.00	0.94	1.00	3.48	3.00	3.48	-----	28 00	-----	2044		
2.20	1.75	1.65	10.26	8.50	9.30	8.00	0.96	0.50	5.35	5.00	5.35	-----	-----	-----	-----	2047	
3.00	1.90	1.65	8.16	8.50	*7.42	8.00	0.74	0.50	5.92	5.00	5.92	-----	50 25	1478			
2.40	1.94	1.65	9.34	8.50	8.68	8.00	0.66	0.50	5.54	5.00	5.54	-----	45 00	-----	2084		
4.30	1.99	1.65	13.84	12.50	12.92	12.00	0.92	0.50	2.23	2.00	2.26	-----	38 60	-----	1694		
3.00	1.94	1.65	12.49	9.50	10.55	9.00	1.94	0.50	3.58	3.00	3.38	-----	-----	-----	-----	2048	
6.71	1.11	0.82	9.64	8.50	8.62	8.00	1.02	0.50	2.35	2.00	2.35	-----	50 00	1302			
2.30	0.99	0.82	9.31	8.50	8.69	8.00	0.62	0.50	2.28	2.00	2.28	-----	33.00	1896			
5.18	0.86	0.82	9.73	8.50	8.65	8.00	1.08	0.50	2.69	2.00	2.69	-----	30 00	1343			
7.14	1.78	1.65	9.72	8.50	8.70	8.00	1.02	0.50	2.34	2.00	2.34	-----	34 25	1303			
2.25	1.94	1.65	10.00	8.50	9.40	8.00	0.66	0.50	2.33	2.00	2.33	-----	36 00	1896			
2.79	1.88	1.65	9.32	8.50	8.64	8.00	0.68	0.50	2.33	2.00	2.33	-----	-----	-----	1718		
5.18	1.00	0.82	8.86	7.50	8.00	7.00	0.86	0.50	1.16	1.00	1.16	-----	29 00	1561			
2.00	0.89	0.82	7.90	7.50	7.12	7.00	0.78	0.50	1.07	1.00	1.07	-----	28 00	2152			
2.92	0.86	0.82	8.35	7.50	7.43	7.00	0.92	0.50	1.22	1.00	1.22	-----	-----	1261			
2.94	1.07	0.82	9.82	8.50	8.28	8.00	1.54	0.50	*3.43	4.00	3.43	-----	33 00	1249			
3.50	0.91	0.82	8.18	7.50	7.46	7.00	0.72	0.50	1.05	1.00	1.05	-----	30 00	1785			
6.34	1.70	1.65	8.86	8.00	8.08	8.00	0.78	-----	2.00	2.00	2.00	-----	33 00	1380			
1.72	1.89	1.65	9.10	8.00	8.22	8.00	0.88	-----	2.35	2.00	2.35	-----	36 00	2184			
4.46	1.83	1.65	9.48	8.00	8.54	8.00	0.94	-----	2.78	2.00	2.78	-----	-----	-----	1587		
5.64	1.80	1.65	9.12	8.00	8.20	8.00	0.92	-----	11.32	10.00	11.32	-----	43 25	1390			
1.47	1.84	1.65	9.36	8.00	8.26	8.00	1.10	-----	5.08	5.00	5.08	-----	35 00	2144			
4.07	1.85	1.65	9.57	8.07	8.27	8.00	1.00	-----	5.34	5.00	5.34	-----	39 25	1879			
5.81	1.80	1.65	8.80	8.00	*7.61	8.00	1.19	-----	5.62	5.00	5.62	-----	37 25	1389			
3.35	1.18	0.82	9.73	8.00	8.85	8.00	0.88	-----	3.74	2.00	3.74	-----	32 25	1880			
4.78	1.07	0.82	9.56	8.00	8.68	8.00	0.88	-----	4.76	4.00	4.76	-----	35 75	1493			
2.02	0.93	0.82	9.71	8.00	8.61	8.00	1.10	-----	4.58	4.00	4.58	-----	30 75	2130			
4.21	0.95	0.82	9.42	8.00	8.52	8.00	0.90	-----	4.60	4.00	4.60	-----	28 23	1416			
3.35	1.88	1.65	10.01	8.00	9.02	8.00	0.92	-----	2.28	2.00	2.28	-----	34 00	1795			
4.45	0.90	0.82	8.66	8.00	8.12	8.00	0.54	-----	0.95	1.00	0.95	-----	28 50	1853			
2.50	0.94	0.82	9.24	8.00	8.72	8.00	0.52	-----	1.15	1.00	1.15	-----	35 00	1892			
5.89	1.20	0.82	9.02	8.00	8.50	8.00	0.72	-----	1.36	1.00	1.36	-----	28 00	1602			
4.16	2.47	2.47	9.44	8.00	8.70	8.00	0.74	-----	3.21	3.00	3.21	-----	38 75	1388			
1.17	1.85	1.65	9.68	8.00	8.62	8.00	1.06	-----	2.29	2.00	2.29	-----	32 25	2131			
4.97	1.74	1.65	9.04	8.00	8.08	8.00	0.96	-----	2.12	2.00	2.12	-----	34 00	1603			
4.75	1.76	1.65	9.43	8.00	8.31	8.00	1.12	-----	2.47	2.00	2.47	-----	33 75	1391			
3.10	2.86	2.47	11.07	10.00	9.37	9.00	1.70	1.00	2.34	2.00	2.34	-----	36 50	2002			
2.28	1.76	1.65	9.48	9.00	8.60	8.00	0.88	1.00	2.22	2.00	2.22	-----	47 00	1469			
3.38	0.95	0.82	10.38	9.00	8.70	8.00	1.68	1.00	1.02	1.00	1.02	-----	36 50	1470			

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1894	Bowker's Staple Phosphate, -----	A. C. McClure, Burgettstown, -----
1544	Bowker's Sure Crop Phosphate Revised, --	Geo. Chichura, Olyphant, -----
2170	Bowker's Sure Crop Phosphate Revised, --	C. S. Hunter Company, Washington, --
1485	THE CENTRAL CHEMICAL CO., HAGERSTOWN, MD.	
1700	Gro-All Canners Special, -----	M. P. Close, Tioga, -----
1659	Gro-All Canners Special, -----	Mahlon Hamm, Lehighton, -----
1809	Gro-All Crown Jewel, -----	Lloyd Hay, Meyersdale, -----
1807	Gro-All Fish and Potash Mixture, -----	N. G. Adams, Paxinos, -----
1308	Gro-All Golden Sheaf, -----	N. G. Adams, Paxinos, -----
1287	Gro-All Golden Sheaf, -----	N. G. Adams, Paxinos, -----
2161	Gro-All Golde Sheaf, -----	Francis Baker, Everett, -----
1623	Gro-All Golden Sheaf, -----	Andrew Bartholomew, Bath, -----
1303	Gro-All Graiu and Grass Grower, -----	S. K. Chambers & Brother, Elkview, -----
1761	Gro-All Graiu and Grass Grower, -----	H. F. Mason, Osterburg, -----
1305	Gro-All Valley Mixture, -----	Mercersburg Elevator Co., Mercersburg, -----
2148	Gro-All Valley Mixture, -----	H. E. Mason, Osterburg, -----
		Charles H. Schall, Northampton, -----
2076	THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN CHEMICAL COM- PANY, NEW YORK, N. Y.	
1476	E. Frank Coe's Celebrated Special Potato Fertilizer Revised.	A. T. Brown, Nescopeck, -----
1654	E. Frank Coe's Columbian Corn and Potato Fertilizer.	R. P. Heilman, Emporium, -----
1491	E. Frank Coe's Gold Brand Excelsior Guano Revised.	Isaac Rothenberger, Limekiln, -----
1475	E. Frank Coe's New Englander Special, --	E. M. Day, Brookside, -----
	E. Frank Coe's Pennsylvania No. 1 Grain Special 1916.	R. P. Heilman, Emporium, -----
1984	E. Frank Coe's Pennsylvania No. 1 Grain Special 1916.	H. R. Longenecker, Rheems, -----
1923	E. Frank Coe's Pennsylvania No. 1 Grain Special 1916.	Ward & Morris, Clearville, -----
1964	E. Frank Coe's Reliable Compound, -----	J. M. Hix, Hamburg, -----
2142	E. Frank Coe's Western New Yorker, -----	H. D. Minnich, Emaus, -----
1653	E. Frank Coe's Western New Yorker, -----	Isaac Rothenberger, Limekiln, -----
2109	COLUMBIA GUANO COMPANY, ALLIED WITH F. S. ROYSTER GUANO COM- PANY, BALTIMORE, MD.	
	Columbia Bountiful Guano, -----	S. R. Cotton, New Wilmington, -----
2120	THE CONSUMERS CHEMICAL CORP- ORATION, AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL COMPANY, NEW YORK, N. Y.	
2121	Little Prince Brand, -----	W. H. Mitman, Easton, -----
1690	Model Brand, -----	W. H. Mitman, Easton, -----
	Old Hickory Brand, -----	McConnell Brothers, Hughesville, -----
1802	THE JAS. G. DOWNWARD CO., COATES- VILLE, PA.	
	Royal Phosphate, -----	Isaac Tomlinson, Huntingdon Valley, --
1844	DUMONT FERTILIZER CO., PHILADEL- PHIA, PA.	
2133	Dumont's Corn Fertilizer 1-9-3, -----	Frank H. Kulp, Boyerstown, -----
2005	Dumont's Corn Fertilizer 1-9-3, -----	William C. Nash, Pipersville, -----
2137	Dumont's One Eight One, -----	Harry Wilson, Frazer, -----
1843	Dumont's One Eight One, -----	E. J. Houck, Bangor, -----
1845	Dumont's Two Eight Two, -----	Frank B. Kulp, Boyerstown, -----
		Frank B. Kulp, Boyerstown, -----

FERTILIZERS—Continued.

Moisture.	GEN. NITRO.			PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.		
				Total.			Available.		Insoluble.		Present as muriate.		Present as sulphate.				
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.			
1.37	1.07	0.82	10.65	9.00	9.23	8.00	1.42	1.00	1.23	1.00	1.23	1.00	1.23	1.00	35 00	1894	
6.22	1.62	0.82	9.69	9.00	8.65	8.00	1.04	1.00	2.29	2.00	2.29	2.00	2.29	2.00	40 00	1544	
1.62	1.01	0.82	10.46	9.00	9.24	8.00	1.22	1.00	2.05	2.00	2.05	2.00	2.05	2.00	35 00	2176	
2.52	1.56	1.65	9.90	-----	9.56	8.00	0.34	-----	*4.48	5.00	2.00	2.48	5.00	2.48	50 00	1485	
3.80	1.60	1.64	9.49	8.50	8.71	8.00	0.78	0.50	5.21	5.00	5.21	5.00	5.21	5.00	34 65	1700	
4.25	1.64	1.64	9.18	8.50	8.26	8.00	0.92	0.50	5.00	5.00	5.00	5.00	5.00	5.00	35 53	1659	
3.09	1.03	0.82	10.04	9.50	9.34	9.00	0.70	0.50	3.24	3.00	3.24	3.00	3.24	3.00	34 00	1800	
5.14	1.05	1.03	11.25	9.50	10.63	9.00	0.62	0.50	1.02	1.00	1.02	1.00	1.02	1.00	32 00	1807	
1.94	0.80	0.82	9.22	8.76	8.70	8.00	0.52	0.50	1.02	1.00	1.02	1.00	1.02	1.00	30 00	1808	
3.53	0.86	0.82	8.62	8.50	7.98	8.00	0.64	0.50	1.15	1.00	1.15	1.00	1.15	1.00	30 00	1287	
1.60	1.01	0.82	9.85	8.50	8.93	8.00	0.92	0.50	1.15	1.00	1.15	1.00	1.15	1.00	27 00	2161	
4.40	1.01	0.82	9.13	8.50	8.75	8.00	0.38	0.50	1.11	1.00	1.11	1.00	1.11	1.00	33 00	1623	
5.65	1.80	1.65	14.10	12.50	12.58	12.00	1.52	0.50	2.10	2.00	2.10	2.00	2.10	2.00	35 70	1306	
7.92	1.95	1.65	12.63	12.50	*11.55	12.00	1.08	0.50	2.47	2.00	2.47	2.00	2.47	2.00	36 00	1761	
6.83	1.71	1.65	9.04	8.70	8.30	8.00	0.74	0.50	2.20	2.00	2.20	2.00	2.20	2.00	33 40	1205	
1.45	1.80	1.65	9.48	8.50	8.40	8.00	1.08	0.50	2.63	2.00	2.63	2.00	2.63	2.00	23 75	2148	
1.77	3.67	3.29	9.84	9.00	8.50	8.00	1.34	1.00	4.41	4.00	4.41	4.00	4.41	4.00	39 25	2076	
8.82	1.58	1.65	9.20	9.00	8.48	8.00	0.72	1.00	2.97	3.00	2.97	3.00	2.97	3.00	43 00	1476	
4.94	2.45	2.47	9.34	9.00	8.46	8.00	0.88	1.00	4.23	4.00	4.23	4.00	4.23	4.00	39 75	1654	
4.59	0.87	0.82	9.64	9.00	8.82	8.00	1.32	1.00	2.07	2.00	2.07	2.00	2.07	2.00	31 75	1491	
6.18	1.19	0.82	10.52	11.00	*9.46	10.00	1.06	1.00	1.49	1.00	1.49	1.00	1.49	1.00	35 00	1475	
2.50	0.99	0.82	11.78	11.00	10.48	10.00	1.30	1.00	1.21	1.00	1.21	1.00	1.21	1.00	30 00	1984	
3.62	1.03	0.82	12.37	11.00	11.15	10.00	1.22	1.00	1.01	1.00	1.01	1.00	1.01	1.00	33 00	1923	
6.52	1.80	1.65	13.43	13.00	*11.77	12.00	1.66	1.00	2.16	2.00	2.16	2.00	2.16	2.00	-----	1964	
2.00	1.03	0.82	9.96	9.00	8.82	8.60	1.14	1.00	4.48	4.00	4.48	4.00	4.48	4.00	31 75	2142	
4.25	1.60	0.82	9.26	9.00	8.30	8.00	0.90	1.00	4.38	4.00	4.38	4.00	4.38	4.00	32 00	1653	
2.22	1.80	1.65	13.80	12.50	12.88	12.00	0.92	0.50	2.32	2.00	2.32	2.00	2.32	2.00	37 00	2100	
2.85	1.19	0.82	11.24	10.00	9.98	9.00	1.26	1.00	3.47	3.00	3.47	3.00	3.47	3.00	30 90	2120	
2.92	1.10	0.82	9.96	9.00	8.92	8.00	1.04	1.00	2.28	2.00	2.28	2.00	2.28	2.00	28 90	2121	
3.63	1.90	1.65	9.76	9.00	8.90	8.00	0.86	1.00	3.35	3.00	3.35	3.00	3.35	3.00	37 00	1690	
2.74	0.83	-1.00	9.38	11-12	*8.82	10-11	0.56	1-2	1.36	1-2	0.50	0.86	0.86	0.86	33 00	1802	
3.62	1.00	0.82	11.61	-----	10.25	9.00	1.36	-----	3.31	3.00	3.31	3.00	3.31	3.00	32 75	1844	
1.97	1.20	0.82	11.86	-----	10.46	9.00	1.40	-----	3.34	3.00	3.34	3.00	3.34	3.00	33 50	2122	
2.45	1.05	0.82	11.58	-----	10.24	9.00	1.24	-----	3.29	3.00	3.29	3.00	3.29	3.00	31 00	2005	
1.85	1.08	0.82	10.31	-----	9.21	8.00	1.10	-----	1.10	1.00	1.10	1.00	1.10	1.00	28 50	2137	
4.61	1.10	0.82	10.01	-----	8.99	8.00	1.02	-----	1.45	1.00	1.45	1.00	1.45	1.00	28 50	1843	
6.22	1.70	1.65	9.89	-----	9.01	8.00	0.88	-----	2.34	2.00	2.34	2.00	2.34	2.00	34 50	1845	

*Deficient.

TABLE II.—COMPLETE

Chemist's Examples.

	Name of Manufacturer and Brand.	Sample Taken From—
1500	EASTERN GUANO CO., NEW YORK N. Y. Eastern Anchor Brand, -----	Walker, Dichl & Walker, Richmond Furnace.
1557	EUREKA CHEMICAL CO., BALTIMORE MD.	W. H. Nesbit, McConnellsburg, -----
2186	Eureka Fish and Potash, -----	C. C. Davis, Greensboro, -----
1917	Eureka Fish and Potash No. 1, -----	W. H. Nesbit, McConnellsburg, -----
1512	Eureka Fish and Potash No. 1, -----	J. M. Frick, Wellsville, -----
1512	Eureka Grain and Grass, -----	
1985	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.	Mary A. Boyle, Elizabethtown, -----
1332	Pride of Donegal, -----	Farmers Co-Operative Association Lewistown.
1868	Pride of Donegal, -----	J. H. Heterick, Palmyra, -----
1867	Special Compound, -----	J. H. Heterick, Palmyra, -----
2203	GRIFFITH & BOYD CO., BALTIMORE, MD.	Farmers Co-Operative Union, Granville Summit.
1811	Griffith & Boyd Co's Cereal Plant Food, -----	E. A. Slagle, Paxinos, -----
1640	Griffith & Boyd Co's Economizer, -----	John Clay, Palmyra, -----
2000	Griffith & Boyd Co's Farmers Queen, -----	F. E. Bailey, Northbrook, -----
2204	Griffith & Boyd Co's Fish and Potash Guano, -----	Farmers Co-Operative Union, Granville Summit.
1822	Griffith & Boyd Co's Fish and Potash Guano, -----	E. I. White, Danville, -----
1410	Griffith & Boyd Co's Fish, Blood and Potash, -----	Morris C. Bohn, Bernville, -----
1347	Griffith & Boyd Co's Fish, Blood and Potash, -----	Hartley & Blaine, Turbotville, -----
1607	Griffith and Boyd Co's Fish, Blood and Potash, -----	Garfield Mihous, Mendenhall, -----
1414	Griffith & Boyd Co's General Crop Grower, -----	Morris C. Bohn, Bernville, -----
2223	Griffith & Boyd Co's General Crop Grower, -----	W. E. Wells, Parker Ford, -----
1606	Griffith & Boyd Co's Peerless Fertilizer, -----	Garfield Mihous, Mendenhall, -----
1419	Griffith & Boyd Co's Peerless Fertilizer, -----	Frank Reimert, Kutztown, -----
2205	Griffith & Boyd Co's Royal Potash Guano, -----	Farmers Co-Operative Union, Granville Summit.
1348	Griffith & Boyd Co's Royal Potash Guano, -----	Hartley & Blaine, Turbotville, -----
1418	Griffith & Boyd Co's Royal Potash Guano, -----	Frank Reimert, Kutztown, -----
1717	Griffith & Boyd Co's Royal Potash Guano, -----	John A. Wert, Rock, -----
1413	Griffith & Boyd Co's Special Formula, -----	Morris C. Bohn, Bernville, -----
1349	Griffith & Boyd Co's Special Formula, -----	Hartley & Blaine, Turbotville, -----
1639	Griffith & Boyd Co's Special Guano, -----	John Clay, Palmyra, -----
1635	Griffith & Boyd Co's Special Peerless Guano, -----	Albright & Schwoyer, Kempton, -----
1412	Griffith & Boyd Co's Standard Guano, -----	Morris C. Bohn, Bernville, -----
2041	Griffith & Boyd Co's Valley Fertilizer, -----	Jones Eavenson, Christiana, -----
2079	S. M. HESS & BROTHER, INC., SUB- SIDIARY OF THE AMERICAN CHEM- ICAL COMPANY, NEW YORK, N. Y.	
1408	Farmers General Fertilizer, -----	C. L. Tressler, Conyngham, -----
1577	Keystone Phosphate, -----	L. D. Wiest, Bernville, -----
1592	Special Compound, -----	John Reabuek, Klingerstown, -----
2160	Special Compound, -----	John H. Shenk, Linglestown, -----
2128	P. HOFFMAN & BROTHER, RAUBS- VILLE, PA.	Eugene Stahley, Danielsville, -----
	Hoffmans Special Fertilizer, -----	P. Hoffman & Brother, Raubsville, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.			PHOSPHORIC ACID.						POTASH.						Chemist's number.	
	Found.	Guaranteed.		Pound.	Total.			Available.		Insoluble.		Found.	Guaranteed.		Present as muriate.	Present as sulphate.	Selling price per ton at place of selection.
		Pound.	Guaranteed.		Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		Guaranteed.	Found.	Guaranteed.		
5.04	0.85	0.82		9.44	8.50	8.82		8.00	0.62	0.50	1.01	1.00	1.01	1.01	-----	25 50	1560
3.30	0.58	-----	9.54	-----	8.84	8.00	0.70	0.50	2.06	2.00	2.06	-----	-----	28 00	1557		
2.55	0.63	-----	9.12	-----	8.38	8.00	0.74	-----	1.09	1.00	1.00	-----	-----	35 00	2186		
2.80	0.67	-----	9.06	-----	8.32	8.00	0.74	0.50	*0.76	1.00	0.76	-----	-----	-----	1917		
0.56	0.74	-----	9.74	-----	8.98	8.00	0.76	0.50	2.10	2.00	2.10	-----	-----	-----	1513		
5.52	1.95	1.65	8.87	8.00	8.09	7.00	0.78	1.00	3.50	3.00	3.50	-----	-----	-----	1985		
9.56	1.74	1.65	8.90	8.00	7.78	7.00	1.12	1.00	3.79	3.00	3.79	-----	-----	27 54	1332		
4.46	1.59	1.65	9.30	8.00	8.60	7.00	0.70	1.00	3.64	3.00	3.64	-----	-----	30 00	1868		
4.50	0.97	0.82	10.27	9.00	9.51	8.00	0.76	1.00	2.34	2.00	2.34	-----	-----	27 50	1867		
1.45	1.04	0.82	9.08	9.00	7.92	8.00	1.16	1.00	2.36	2.00	2.36	-----	-----	33 00	2203		
2.92	0.60	0.41	7.40	7.00	6.40	6.00	1.00	1.00	1.73	1.00	1.73	-----	-----	24 00	1811		
4.38	1.06	0.82	10.65	10.00	9.51	9.00	1.14	1.00	3.45	3.00	3.45	-----	-----	31 25	1640		
1.52	1.60	1.44	8.96	8.00	7.72	7.00	1.24	1.00	3.60	3.00	3.60	-----	-----	34 00	2000		
1.50	1.53	1.44	10.22	8.00	8.70	7.00	1.52	1.00	3.07	3.00	3.07	-----	-----	36 00	2204		
2.02	1.39	1.44	9.10	8.00	7.82	7.00	1.28	1.00	3.15	3.00	3.15	-----	-----	34 00	1822		
4.06	1.56	1.44	9.67	8.00	8.09	7.00	1.58	1.00	2.23	2.00	2.23	-----	-----	30 50	1410		
7.29	1.45	1.44	9.02	8.00	7.58	7.00	1.44	1.00	2.01	2.00	2.01	-----	-----	31 35	1347		
4.42	1.63	-----	8.44	-----	7.26	7.00	1.08	-----	2.11	2.00	2.11	-----	-----	34 00	1607		
6.16	*1.01	1.65	8.92	9.00	8.16	8.00	0.76	1.00	*1.18	2.00	1.18	-----	-----	35 00	1414		
2.27	1.72	1.65	9.80	9.00	8.08	8.00	1.72	1.00	2.46	2.00	2.46	-----	-----	33 50	2023		
3.71	0.58	0.41	8.98	9.00	8.44	8.00	0.54	1.00	2.29	2.00	2.29	-----	-----	32 00	1606		
3.86	0.65	0.41	9.80	9.00	8.10	8.00	1.70	1.00	2.37	2.00	2.37	-----	-----	27 00	1419		
6.72	0.96	0.82	10.75	9.00	9.01	8.00	1.74	1.00	4.12	4.00	4.12	-----	-----	35 00	2205		
7.77	0.88	0.82	10.91	9.00	9.01	8.00	1.90	1.00	4.69	4.00	4.69	-----	-----	31 93	1348		
6.47	1.00	0.82	9.53	9.00	8.63	8.00	0.90	1.00	4.51	4.00	4.51	-----	-----	31 00	1418		
5.18	1.00	0.82	10.67	9.00	9.19	8.00	1.43	1.00	4.48	4.00	4.48	-----	-----	35 50	1717		
5.74	1.69	1.65	11.56	11.00	10.50	10.00	1.06	1.00	*3.52	4.00	3.52	-----	-----	38 25	1413		
9.70	1.62	1.65	11.36	11.00	10.34	10.00	1.02	1.00	3.88	4.00	3.88	-----	-----	36 58	1349		
5.09	1.66	1.65	10.41	9.00	9.29	8.00	1.12	1.00	5.17	5.00	5.17	-----	-----	26 00	1639		
4.17	0.61	0.41	10.02	9.00	8.32	8.00	1.70	1.00	1.26	1.00	1.26	-----	-----	25 00	1635		
10.50	1.69	1.65	13.32	13.00	12.48	12.00	0.84	1.00	2.06	2.00	2.05	-----	-----	28 50	1412		
1.85	0.81	0.62	8.49	9.00	8.19	8.00	0.30	1.00	3.03	3.00	3.03	-----	-----	30 00	2041		
2.52	1.11	0.82	11.84	11.00	10.70	10.00	1.14	1.00	1.20	1.00	1.20	-----	-----	29 00	2079		
4.21	0.89	0.82	9.25	9.00	7.82	8.00	1.43	1.00	1.00	1.00	1.00	-----	-----	1408			
2.42	1.00	0.82	10.14	9.00	8.54	8.00	1.60	1.00	4.38	4.00	4.38	-----	-----	33 00	1577		
4.66	0.90	0.82	9.57	9.00	8.17	8.00	1.40	1.00	4.25	4.00	4.25	-----	-----	32 00	1392		
2.47	1.20	0.82	9.38	9.00	8.48	8.00	0.90	1.00	4.41	4.00	4.41	-----	-----	33 75	2160		
1.70	1.25	0.82	14.25	10.00	10.77	8.00	3.48	2.00	4.11	3.00	4.11	-----	-----	28 00	2128		

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1398	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.	
1397	Hubbard's Climax Phosphate, -----	J. R. Meck, Meckville, -----
1396	Hubbard's Farmers I. X. L., -----	J. R. Meck, Meckville, -----
1559	Hubbard's Fish Mixture, -----	J. R. Meck, Meckville, -----
2658	Hubbard's Fish Mixture, -----	Walker, Dichl & Walker, Richmond Furnace.
2656	Hubbard's Money Maker Fertilizer, -----	Harry Hartman, Orwigsburg, -----
1570	Hubbard's 1-8-3 Fertilizer, -----	Geo Seltzer, Orwigsburg, -----
	Hubbard's 1-8-3 Fertilizer, -----	Shippensburg Warehouse Co., Shippensburg.
1488	INTERNATIONAL AGRICULTURAL CORPORATION, BUFFALO FERTILIZER WORKS, BUFFALO, N.Y.	
1489	Buffalo Farmers Choice, -----	C. E. Rauscher, Blossburg, -----
	I. A. C. Complete, -----	C. E. Rauscher, Blossburg, -----
2698	THE JARECKI CHEMICAL COMPANY, SANDUSKY, OHIO.	
2697	Little Giant, -----	W. H. Stevenson & Son, Volant, -----
	No. One Formula, -----	W. H. Stevenson & Son, Volant, -----
2153	T. S. KENDERDINE & SON, NEWTOWN PA.	
	Kenderdines B. Phosphate, -----	T. S. Kenderdine & Son, Newtown, -----
1815	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.	
1814	Keystone Excelsior Wheat Grower, -----	E. A. Slagle, Paxinos, -----
1631	Keystone Grain & Grass Manure, -----	E. A. Slagle, Paxinos, -----
	Keystone Royal Corn and Potato Manure Revised.	Albright & Schwoyer, Kempton, -----
2077	Keystone Royal Corn and Potato Manure Revised.	P. K. Smith, Nescopeck, -----
1972	THE KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA.	
1733	Granger's Leader, -----	M. G. Gingrich, Lebanon, -----
1730	Granger's Leader, -----	Pocono Grange, Tannersville, -----
	Granger's Prize, -----	Pocono Grange, Tannersville, -----
1765	LANCASTER BONE FERTILIZER COMPANY, LANCASTER, PA.	
1764	Harvest King, -----	G. F. Fendrich, Mercersburg, -----
1259	Lancaster Favorite, -----	G. F. Fendrich, Mercersburg, -----
2158	Lancaster Favorite, -----	W. E. Ulrich, Myerstown, -----
2019	Lancaster Scientific Compound, -----	M. A. Herber, Breinigsville, -----
2032	Lancaster Scientific Compound, -----	Henry Zook, Elverson, -----
1763	Potato Tobacco and Truck Manure, -----	E. B. Fritz, Son. Quarryville, -----
2159	Tobacco and Potato Compound, -----	C. F. Hendrich, Mercersburg, -----
1260	Tobacco and Potato Compound, -----	M. A. Herber, Breinigsville, -----
	Tobacco and Potato Compound, -----	W. E. Ulrich, Myerstown, -----
2020	Tobacco and Potato Compound, -----	
1258	Truckers Success, -----	Henry Zook, Elverson, -----
		W. E. Ulrich, Myerstown, -----
1903	LEBANON FERTILIZER WORKS, LEBANON, PA.	
1981	Levan's Farmers' Favorite 1-8-2, -----	Moses K. Horst, Scotland, -----
1407	Levan's Farmers' Favorite 1-8-2, -----	Isaac B. Minich, Manheim, -----
1857	Levan's Farmers' Favorite 1-8-2, -----	C. J. Pottiger, Bernville, -----
1901	Levan's Farmers' Standard 2-12-2, -----	J. M. Groh, Lickdale, -----
1838	Levan's Farmers' Standard 2-12-2, -----	Moses K. Horst, Scotland, -----
1963	Levan's Golden Sheaf, -----	I. G. Washburn, Millville, -----
		A. F. Bauer Est., Hamburg, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.						Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.		Present as sulphate.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.			Present.	Present as sulphate.				
5.28	1.05	0.82	9.69	8.00	8.81	7.00	0.88	1.00	4.24	4.00	4.24	-----	34 00	1398		
6.18	1.56	1.64	9.63	9.00	8.87	8.00	0.76	1.00	2.39	2.00	2.39	-----	35 00	1397		
4.68	1.00	0.82	10.42	9.00	9.28	8.00	1.14	1.00	1.34	1.00	1.34	-----	30 00	1396		
4.02	1.05	0.82	10.03	9.00	9.27	8.00	0.76	1.00	1.41	1.00	1.41	-----	25 50	1559		
2.15	1.72	1.64	10.60	9.00	9.50	8.00	1.10	1.00	5.30	5.00	5.30	-----	33 00	2058		
1.80	1.04	0.82	9.72	9.00	8.64	8.00	1.08	1.00	3.25	3.00	3.35	-----	28 25	2056		
4.40	0.80	0.82	10.40	9.00	8.90	8.00	1.50	1.00	3.00	3.00	3.00	-----	28 75	1570		
3.58	0.90	0.80	12.06	11.00	10.42	10.00	1.64	1.00	1.86	2.00	1.50	0.36	35 00	1488		
4.73	1.60	1.60	10.24	9.00	8.56	8.00	1.68	1.00	2.12	2.00	1.70	0.42	38 00	1489		
2.25	1.08	0.82	11.28	11.00	10.46	10.00	0.82	1.00	1.30	1.00	1.30	-----	30 06	2098		
2.27	0.95	0.82	11.75	11.00	11.03	10.00	0.72	1.00	*1.10	2.00	1.10	-----	32 50	2097		
1.55	2.71	2.47	10.73	10.00	9.61	8.00	1.12	2.00	3.35	3.00	3.35	-----	39 00	2153		
4.41	1.09	0.82	10.06	9.00	8.70	8.00	1.36	1.00	4.66	4.00	4.66	-----	34 00	1815		
4.80	1.15	0.82	9.76	8.00	8.28	7.00	1.48	1.00	1.22	1.00	1.22	-----	28 00	1814		
5.05	1.67	1.64	10.54	9.00	9.20	8.00	1.34	1.00	3.84	4.00	3.84	-----	33 75	1631		
2.70	1.98	1.64	11.16	9.00	8.82	8.00	2.34	1.00	4.29	4.00	4.29	-----	36 00	2077		
1.27	1.76	1.65	10.06	8.50	8.92	8.00	1.14	0.50	2.12	2.00	2.12	-----	-----	1972		
4.10	1.73	1.65	9.28	8.50	8.36	8.00	0.92	0.50	2.09	2.00	2.09	-----	28 00	1733		
4.37	1.69	1.65	9.02	8.50	8.50	8.00	0.52	0.50	4.88	5.00	4.88	-----	38 00	1730		
6.91	0.12	Trace	10.64	11.00	10.26	10.00	0.38	1.00	4.33	4.00	4.33	-----	25 00	1765		
4.02	0.88	0.82	9.15	9.00	8.67	8.00	0.48	1.00	1.15	1.00	1.15	-----	25 00	1764		
2.00	1.06	0.82	8.23	9.00	7.89	8.00	0.34	1.00	1.40	1.00	1.40	-----	31 00	1259		
2.60	1.76	1.60	10.15	9.00	9.47	8.00	0.68	1.00	4.04	4.00	1.60	2.44	36 00	2158		
2.17	1.70	1.60	9.67	9.00	8.51	8.00	1.16	1.00	4.48	4.00	4.48	-----	2019			
1.97	1.73	1.60	8.91	9.00	8.47	8.00	0.44	1.00	1.10	1.00	1.30	0.80	27 00	2032		
5.15	1.00	0.82	9.31	10.00	*8.77	9.00	0.54	1.00	3.60	3.00	3.60	-----	31 00	1763		
2.75	1.23	0.82	9.96	10.00	9.44	9.00	0.52	1.00	3.34	3.00	3.34	-----	31 50	2159		
2.04	0.91	0.82	9.75	10.00	9.39	9.00	0.36	1.00	3.43	3.00	3.43	34 00	1260			
1.65	0.88	1.00	10.27	-----	*9.59	13.00	0.68	-----	3.20	3.4	.20	-----	2020			
5.75	1.74	1.60	12.82	13.00	12.34	12.00	0.48	1.00	2.09	2.00	2.09	2.09	38 00	1258		
4.87	0.98	0.82	8.93	9.00	8.53	8.00	0.40	1.00	2.76	2.00	2.76	-----	26 60	1903		
3.20	0.83	0.82	8.92	9.00	8.44	8.00	0.48	1.00	2.68	2.00	2.68	-----	25 75	1981		
4.92	0.83	0.82	9.38	9.00	8.80	8.00	0.58	1.00	2.44	2.00	2.44	-----	27 00	1407		
5.34	1.84	1.65	13.32	13.00	12.94	12.00	0.58	1.00	2.62	2.00	2.62	-----	36 00	1857		
7.09	1.50	1.65	13.80	13.00	13.06	12.00	0.74	1.00	2.40	2.00	2.40	-----	32 70	1901		
8.30	1.75	1.65	13.26	13.00	12.94	12.00	0.32	1.00	2.41	2.00	2.41	-----	1838			
2.62	1.00	0.82	9.17	9.00	8.67	8.00	0.50	1.00	1.09	1.00	1.09	-----	28 00	1963		

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1582	Levan's Lebanon Special, -----	I. E. Artz, Hegins, -----
1637	Levan's Lebanon Special, -----	A. D. Trexler Sons, Trexler, -----
1580	Levan's Special Tobacco Compound, -----	I. E. Artz, Hegins, -----
1405	Levan's Special Tobacco Compound, -----	Charles J. Pottenger, Bernville, -----
1579	Levan's Special Tobacco Compound, -----	Samuel Savidge, Valley View, -----
2172	FRED E. LORD, ESPY, PA. Columbia County Spring Special, -----	Fred, E. Lord, Espy, -----
1792	THE MAPES FORMULA & PERUVIAN GUANO CO., NEW YORK, N. Y. The Mapes Grain Brand, -----	John W. Root, Kimberton, -----
	THE MARTIN FERTILIZER CO., PHILADELPHIA, PA.	
1370	Bull Head Brand Corn and Cereal Special, -----	Harvey G. Shortlidge, Kelton, -----
2065	Bull Head Brand Dissolved Organic Com- pound.	John Reed, Cressona, -----
2049	Bull Head Brand Special Compound, -----	Keystone Tractor & Implement Co., Palmyra.
2066	Bull Head Brand Special Compound, -----	Milton Spencake, Pine Grove, -----
2050	Bull Head Brand Sure Grower, -----	Keystone Tractor & Implement Co., Palmyra.
	MILLER FERTILIZER COMPANY, BALTIMORE, MD.	
1383	Ammoniated, -----	Miller T. Harkins, Hickory Hill, -----
2072	Ammoniated, -----	C. M. Harter, Wapwallopen, -----
1687	Aminoniated, -----	Herman Keebler, Montoursville, -----
1287	Club Brand No. 2, -----	G. P. Atwell, Grove City, -----
1598	Harvest Queen, -----	Miller T. Harkins, Hickory Hill, -----
2071	Harvest Queen, -----	C. M. Harter, Wapwallopen, -----
1638	Hustler Phosphate, -----	Albright & Schwoyer, Kempton, -----
2089	Hustler Phosphate, -----	G. P. Atwell, Grove City, -----
2069	Hustler Phosphate, -----	C. M. Harter, Wapwallopen, -----
1732	Miller's Clermont, -----	Franklin Miller & Son, Greencastle, -----
1384	Miller's Grass and Grain, -----	Miller T. Harkins, Hickory Hill, -----
1937	Miller's Harvest Queen, -----	W. H. Muth & Co., Lititz, -----
2070	Miller's Unexcelled, -----	C. M. Harter, Wapwallopen, -----
1790	Miller's Unexcelled, -----	A. K. Kulp, Pottstown, -----
1385	Standard Phosphate, -----	Miller T. Harkins, Hickory Hill, -----
	NITRATE AGENCIES COMPANY, NEW YORK, N. Y.	
1692	Pennsylvania Federated Farmers Associa- tion 2-12-2.	Clinton County Co-operative Association, Lock Haven.
	G. OBER & SONS COMPANY, BALTIMORE, MD.	
2140	Ober's Farmers Mixture, -----	B. C. Frable, Pleasant Valley, -----
1669	Ober's Farmers Mixture, -----	N. B. Shober, Garret, -----
2145	Ober's Golden Top Wheat and Corn Grower,	A. L. Bergstresser, Hellertown, -----
1681	Ober's Independent Mixture, -----	G. H. DeFrain, Collomsville, -----
1671	Ober's Independent Mixture, -----	N. B. Shober, Garret, -----
2016	Ober's Independent Mixture, -----	D. E. Wagenseller, Supplee, -----
1743	Ober's Red Seal Corn and Wheat Guano, -----	J. S. Stevenson, Waynesboro, -----
1680	Ober's Soluble Ammoniated Super Phos- phate of Lime.	G. H. DeFrain, Collomsville, -----
1566	Ober's Soluble Ammoniated Super Phos- phate of Lime.	Wm. A. Nickles, Shippensburg, -----
1668	Ober's Soluble Ammoniated Super Phos- phate of Lime.	N. B. Shober, Garret, -----
1698	Ober's Special Plant Food, -----	Victor Solt, Lehighton, -----
1670	Ober's Stag Guano, -----	N. B. Shober, Garret, -----
2015	Ober's Stag Guano, -----	D. E. Wagenseller, Supplee, -----
2129	Ober's Swan-E Fish Guano, -----	R. C. Frable, Pleasant Valley, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.						Chemist's number.		
			Total.			Available.		Insoluble.			Present as muriate.			Present as sulphate			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	\$		
4.26	1.79	1.65	8.97	9.00	8.31	8.00	0.66	1.00	2.64	2.00	2.64	-----	29 50	1582			
3.96	*0.84	1.65	9.34	9.00	8.72	8.00	0.62	1.00	2.62	2.00	2.62	-----	1637				
5.43	1.57	1.65	11.88	11.00	11.22	10.00	0.66	1.00	*3.45	4.00	3.65	-----	1580				
7.80	1.69	1.65	11.33	11.00	10.75	10.00	0.58	1.00	4.28	4.00	4.28	-----	36 50	1405			
4.61	1.68	1.65	11.24	11.00	10.30	10.00	0.94	1.00	5.16	4.00	5.16	-----	1579				
2.32	1.86	1.64	14.30	10.25	12.06	10.00	2.24	0.25	2.52	2.00	2.52	-----	28 00	2172			
4.00	1.69	1.65	10.55	10.00	8.19	8.00	2.36	2.00	2.42	2.00	2.42	-----	35 00	1792			
7.12	1.66	1.65	11.10	9.00	*7.75	8.00	3.25	1.00	3.45	2.00	3.45	-----	34 00	1376			
2.90	0.89	0.82	11.58	9.00	8.86	8.00	2.72	1.00	4.50	4.00	4.50	-----	2065				
3.40	1.83	1.65	12.58	9.00	9.16	8.00	3.42	1.00	5.41	5.00	5.41	-----	2049				
2.17	2.00	1.65	13.29	9.00	9.73	8.00	3.56	1.00	5.46	5.00	5.46	-----	35 00	2066			
3.15	0.88	0.83	11.71	9.00	8.61	8.00	3.10	1.00	1.05	1.00	1.05	-----	2050				
4.98	1.80	-----	9.70	-----	8.12	8.00	1.78	0.50	2.19	2.00	2.19	-----	35 00	1383			
1.77	1.80	-----	9.73	-----	8.64	8.00	1.14	0.50	2.04	2.00	2.04	-----	33 06	2072			
4.22	1.59	-----	9.82	-----	8.80	8.00	1.62	0.50	1.98	2.00	1.98	-----	35 00	1687			
1.50	0.50	-----	8.27	-----	*7.59	8.00	0.68	0.50	0.54	0.50	0.54	-----	30 00	28			
3.62	1.05	-----	10.26	-----	9.32	9.00	0.94	0.50	3.16	3.00	3.16	-----	33 00	1588			
2.32	0.95	0.82	10.90	9.50	9.66	9.00	1.24	0.50	3.22	3.00	3.22	-----	28 00	2071			
4.50	0.98	-----	9.69	-----	8.89	8.00	0.80	0.50	1.90	1.00	1.90	-----	26 75	1633			
2.52	0.90	-----	9.37	-----	8.61	8.00	0.76	0.50	1.07	1.00	1.07	-----	32 00	2030			
2.22	0.95	0.82	9.30	8.50	S.28	8.00	1.02	0.50	1.21	1.00	1.21	-----	28 00	2069			
3.81	1.00	-----	11.42	-----	10.56	10.00	0.86	0.50	2.12	2.00	2.12	-----	31 00	1752			
5.35	1.76	-----	10.12	-----	*8.54	9.00	1.58	-----	3.09	3.00	3.09	-----	35 00	1384			
3.70	0.89	0.82	10.63	9.50	9.81	9.00	0.82	0.50	3.36	3.00	3.36	-----	31 00	1957			
1.67	1.72	1.65	12.26	10.50	10.44	10.00	1.82	0.50	2.26	2.00	2.26	-----	35 00	2070			
3.37	1.74	-----	11.39	-----	10.09	10.00	1.70	0.50	2.51	2.00	2.51	-----	35 50	1790			
6.70	2.46	-----	9.12	-----	7.81	8.00	1.31	0.50	3.00	3.00	3.00	-----	39 00	1385			
5.10	1.80	1.64	13.62	13.00	12.98	12.00	0.64	1.00	2.26	2.00	1.90	0.36	33 80	1692			
3.25	1.08	0.82	11.30	10.00	10.60	9.00	0.70	1.00	2.39	2.00	2.39	-----	33 00	2140			
6.97	1.04	0.82	10.71	10.00	10.21	9.00	0.50	1.00	2.47	2.00	2.47	-----	31 61	1639			
2.95	1.03	0.82	11.21	10.00	10.13	9.00	1.08	1.00	3.20	3.00	3.20	-----	32 00	2145			
5.71	1.03	0.82	10.04	9.00	9.29	8.00	0.72	1.00	1.75	1.00	1.75	-----	28 50	1681			
6.02	1.01	0.82	10.36	9.00	9.84	8.00	0.52	1.00	1.03	1.00	1.03	-----	29 61	1671			
3.10	0.82	0.82	9.61	9.00	8.81	8.00	0.86	1.00	1.47	1.00	1.47	-----	37 00	1743			
10.20	1.74	1.65	12.40	13.00	12.14	12.00	0.26	1.00	2.45	2.00	2.45	-----	33 50	1680			
5.32	1.73	1.65	10.92	9.00	9.82	8.00	1.00	1.00	2.02	2.00	2.02	-----	30 15	1566			
6.40	2.15	1.65	10.21	9.00	9.07	8.00	1.14	1.00	1.97	2.00	1.97	-----	34 61	1688			
4.70	1.71	1.65	10.59	9.00	9.41	8.00	1.18	1.00	2.17	2.00	2.17	-----	34 61	1688			
4.42	1.75	1.66	11.24	10.00	9.72	9.00	1.52	1.00	5.07	5.00	2.60	4.47	-----	1698			
7.59	1.28	0.82	10.65	10.00	10.17	9.00	0.48	1.00	4.31	4.00	4.31	-----	34 11	1670			
2.42	1.04	0.82	10.78	10.00	9.54	9.00	1.24	1.00	4.57	4.00	4.57	-----	2015				
4.40	1.96	1.65	10.31	10.00	9.93	9.00	0.38	1.00	3.33	3.00	3.33	-----	36 00	2139			

*Deficient.

TABLE II.—COMPLETE

Chemist's number.

	Name of Manufacturer and Brand.	Sample Taken From—
1891	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD.	
1309	Coon Brand Guano, -----	Denny & Allison, Hickory, -----
1747	Coon Brand Guano, -----	Fred D. Mick, Cresco, -----
1881	Coon Brand Guano, -----	E. C. Thomas, Gettysburg, -----
1643	Patapsco B. B. & P. Brand Revised, -----	Joseph Lehman, Holsopple, -----
2096	Patapsco Big Chief Brand with Potash, -----	Geo. A. Speck, Lickdale, -----
2175	Patapsco Big Chief Brand with Potash, -----	M. W. Young, New Castle, -----
1873	Patapsco General Crop Producer, -----	Russel Brothers, Washington, -----
1496	Patapsco Golden Sheaves, -----	Barron & Miller, Friedens, -----
1642	Patapsco Grain and Grass Producer, -----	S. A. Fishburn, Penbrook, -----
	Patapsco Guano, -----	Geo. A. Speck, Lickdale, -----
1550	PATUXENT GUANO COMPANY, BALTIMORE, MD.	
1340	Beaver Brand Guano, -----	Morris N. Mohler, Denver, -----
1952	Patuxent Grain and Clover Producer, -----	H. J. Lindner, Potts Grove, -----
1951	Patuxent Grain and Clover Producer, -----	Morris N. Mohler, Denver, -----
	Tom O'Neill's Golden Harvest, -----	Morris N. Mohler, Denver, -----
1567	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.	
1394	Piedmont Ammoniated Fertilizer, -----	Wm. A. Nickles, Shippensburg, -----
1333	Piedmont Excelsior, -----	Jacob R. Meck, Meckville, -----
1755	Piedmont Farmers Favorite, -----	Jacob R. Meck, Meckville, -----
1974	Piedmont Farmers Favorite, -----	Onwake Brothers, Greencastle, -----
	Piedmont Harvest Queen, -----	Keystone Tractor & Implement Co., Palmyra.
1400	Piedmont Harvest Queen, -----	Jacob R. Meck, Meckville, -----
1568	Piedmont Harvest Queen, -----	Wm. A. Nickles, Shippensburg, -----
1975	Piedmont Insula Fish Guano, -----	Keystone Tractor & Implement Co., Palmyra.
1812	Piedmont Insula Fish Guano, -----	E. A. Slagle, Paxinos, -----
1699	Piedmont Perfection Guano, -----	Victor Solt, Lehighton, -----
1335	Piedmont Standard, -----	Jacob R. Meck, Meckville, -----
1751	RAMSBURG FERTILIZER CO., FREDERICK, MD.	
	Ramsburg Ammoniated Phosphate, -----	Franklin Miller & Son, Greencastle, -----
1457	RASIN-MONUMENTAL COMPANY, SUBSIDIARY OF THE VIRGINIA-CAROLINA CHEMICAL CO., BALTIMORE, MD.	
1274	Rasin's Best Grain & Grass Formula, -----	H. M. Silknitter, Manor Hill, -----
2202	Rasin's Empire Guano, -----	Geo. Dunkel, Myerstown, -----
	Rasin's Empire Guano, -----	W. J. Vickery & Son, Columbia Cross Roads.
1648	Rasin's Royal Fish and Potash Mixture, -----	S. H. Dunkel, Myerstown, -----
1366	Rasin's Royal Fish and Potash Mixture, -----	E. H. Keen & Son, Parkesburg, -----
2166	Rasin's Royal Fish and Potash Mixture, -----	H. B. Lowe & Son, Orangeville, -----
1273	Rasin's Royal Manure, -----	Geo. Donkel, Myerstown, -----
1636	Rasin's United Grain Grower, -----	Albright & Schwoyer, Kempton, -----
1365	Rasin's United Grain Grower, -----	E. H. Keen & Son, Parkesburg, -----
1486	Rasin's Vegetable Special, -----	Geo. M. Durif, Wellsboro, -----
1604	William Penn Crop Grower, -----	W. H. Walker & Co., Kennett Square, -----
1859	READING BONE FERTILIZER CO., READING, PA.	
2011	Blood, Meat and Potash Mixture, -----	S. M. Kline, Lebanon, -----
2010	Blood, Meat and Potash Mixture, -----	J. K. Lewis, Honeybrook, -----
	Farmers Tankage and Potash for Corn, Grain and Grass.	J. K. Lewis, Honeybrook, -----
2134	Farmers Tankage and Potash for Corn, Grain and Grass.	William C. Nash, Pipersville, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Chemist's number.	
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.		Guaranteed.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
1.75	1.10	0.82	11.88	10.00	10.20	9.00	1.68	1.00	2.03	2.00	2.03	—	36 00 1891	
2.22	1.09	0.82	10.70	10.00	9.50	9.00	1.20	1.00	1.16	1.00	1.16	—	39 00 1309	
4.87	0.96	0.82	10.40	10.00	8.84	9.00	1.56	1.00	2.02	2.00	2.02	—	1747	
2.72	1.01	0.82	9.56	9.00	8.90	8.00	0.66	1.00	1.41	1.00	1.41	—	30 00 1881	
7.13	0.96	0.82	10.36	10.00	9.62	9.00	0.74	1.00	3.07	3.00	3.07	—	31 00 1643	
2.10	0.94	0.82	11.46	10.00	9.84	9.00	1.62	1.00	3.28	3.00	3.28	—	23 50 2096	
1.55	1.00	0.82	8.79	8.00	7.25	7.00	1.54	1.00	1.09	1.00	1.09	—	31 50 2175	
5.71	1.79	1.65	12.35	13.00	*11.29	12.00	1.06	1.00	2.03	2.00	2.03	—	36 90 1873	
4.19	0.94	0.82	9.97	9.00	8.49	8.00	1.48	1.00	4.40	4.00	4.40	—	31 75 1496	
9.60	1.52	1.65	9.15	9.00	8.57	8.00	0.58	1.00	2.04	2.00	2.04	—	34 00 1642	
2.80	1.17	0.82	11.28	10.00	10.52	9.00	0.76	1.00	3.39	3.00	3.39	—	1960	
5.81	0.99	0.82	9.67	—	8.55	8.00	1.12	—	3.83	4.00	3.83	—	31 08 1340	
4.25	1.03	0.82	10.16	9.00	9.58	8.00	0.58	1.00	4.90	4.00	4.90	—	1952	
3.92	0.91	0.82	12.91	10.00	12.23	9.00	0.68	1.00	2.26	2.00	2.26	—	1951	
5.23	1.10	0.82	10.71	—	10.25	9.00	0.46	—	2.96	3.00	2.96	—	28 75 1567	
5.00	0.90	0.82	9.92	8.00	9.36	8.00	0.56	—	1.62	1.00	1.62	—	30 00 1394	
6.64	0.95	0.82	9.99	8.00	9.37	8.00	0.62	—	*3.65	4.00	3.65	—	35 00 1393	
5.60	0.90	0.82	9.58	—	8.98	8.00	0.60	—	4.31	4.00	4.31	—	31 00 1755	
3.32	1.15	0.82	11.07	—	10.23	8.00	0.84	—	2.64	2.00	2.64	—	30 00 1974	
5.38	0.85	0.82	9.62	—	8.86	8.00	0.76	—	2.15	2.00	2.15	—	32 00 1400	
5.55	0.99	0.82	10.15	—	9.53	8.00	0.62	—	2.01	2.00	2.01	—	26 75 1568	
3.32	0.70	0.41	8.70	—	8.20	7.00	0.50	—	2.15	2.00	2.15	—	28 00 1975	
4.27	0.65	0.41	8.01	—	7.63	7.00	0.38	—	2.10	2.00	2.10	—	28 00 1812	
4.62	1.56	1.65	10.91	—	10.09	8.00	0.82	—	*4.05	5.00	4.05	—	1699	
5.24	1.54	1.65	10.02	—	9.14	8.00	0.88	—	3.04	3.00	3.04	—	37 00 1395	
5.97	0.88	0.82	10.91	12.00	10.25	10.00	0.66	2.00	2.27	2.00	2.27	—	28 00 1751	
5.05	1.99	1.65	11.03	11.00	10.29	10.00	0.74	1.00	4.56	4.00	4.56	—	1457	
6.89	1.82	1.65	10.11	9.00	8.65	8.00	1.46	1.00	2.18	2.00	2.18	—	37 00 1274	
2.60	2.17	1.65	9.87	9.00	8.55	8.00	1.32	1.00	2.48	2.00	2.48	—	35 00 2202	
5.28	1.81	1.65	11.18	9.00	8.86	8.00	2.32	1.00	3.05	3.00	3.05	—	35 00 1648	
7.28	1.70	1.65	10.00	9.00	8.52	8.00	2.08	1.00	3.04	3.00	3.04	—	34 50 1366	
2.70	2.01	1.65	10.97	9.00	8.45	8.00	2.52	1.00	3.17	3.00	3.17	—	36 00 2166	
6.11	0.49	0.41	9.59	9.00	8.45	8.00	1.14	1.00	1.05	1.00	1.05	—	30 00 1273	
3.86	0.98	0.82	9.80	9.00	8.56	8.00	1.24	1.00	*1.78	2.00	1.78	—	31 50 1636	
7.33	0.85	0.82	9.52	9.00	8.28	8.00	1.24	1.00	2.19	2.00	2.19	—	30 00 1365	
5.85	1.92	1.65	9.33	9.00	8.39	8.00	0.94	1.00	*9.53	10.00	9.53	—	45 00 1486	
5.66	0.98	0.82	9.72	9.00	8.62	8.00	1.10	1.00	1.18	1.00	1.18	—	32 00 1604	
2.45	1.85	1.64	9.38	9.00	8.84	8.00	0.54	1.00	5.13	4.00	5.13	—	34 00 1859	
2.70	1.65	1.64	9.98	9.00	8.46	8.00	1.52	1.00	4.26	4.00	4.26	—	37 50 2011	
4.40	0.99	0.82	12.31	11.00	10.95	10.00	1.36	1.00	2.15	2.00	2.15	—	32 50 2010	
2.62	1.00	0.82	10.75	11.00	10.01	10.00	0.74	1.00	1.88	2.00	1.88	—	34 25 2134	

*Deficient.

TABLE II.—COMPLETE

Chemist's number	Name of Manufacturer and Brand.	Sample Taken From—
1432	Reading 1-8-5, -----	Phaon Heffner, Kutztown, -----
2012	Reading 1-8-5, -----	J. K. Lewis, Honeybrook, -----
1647	Reading 4-8 and 6, -----	S. M. Kline, Lebanon, -----
	READING CHEMICAL CO., READING, PA.	
1275	Cheapest in the End, -----	A. M. Miller, Stouchsburg, -----
1276	Complete Fertilizer, -----	A. M. Miller, Stouchsburg, -----
2075	Peerless Mixture, -----	S. L. Harrison, Wilkes-Barre, -----
2170	Reading All Crop, -----	W. W. Parker, Rohrsburg, -----
1688	Reading All Crop, -----	James Poust, Hughesville, -----
1939	Reading Old Standard, -----	C. E. Frazer, Mill Hall, -----
1940	Tankage and Potash Mixture, -----	C. E. Frazer, Mill Hall, -----
1272	Tankage and Potash Mixture, -----	A. E. Spitler, Myerstown, -----
	F. S. ROYSTER GUANO COMPANY. BALTIMORE, MD.	
1852	Royster's Banner Guano, -----	John P. Fisher, Douglassville, -----
1317	Royster's Banner Guano, -----	E. B. Jermyn, Waymarth, -----
1954	Royster's Cuckoo Guano, -----	L. K. Gruber, Reinhol'd Station, -----
1832	Royster's Cuckoo Guano, -----	J. M. Rider, Millville, -----
1441	Royster's Dreadnought Guano, -----	David Reigel, Jonestown, -----
1466	Royster's Economy Guano, -----	Davis & Hyde, Spartansburg, -----
1831	Royster's Economy Guano, -----	J. M. Rider, Millville, -----
2126	Royster's Economy Guano, -----	Charles Wilhelm, Bethlehem, -----
1953	Royster's Fish, Flesh and Fowl, -----	L. K. Gruber, Reinhol'd Station, -----
1828	Royster's Fish, Flesh and Fowl, -----	J. M. Rider, Millville, -----
1368	Royster's Fish, Flesh and Fowl, -----	Harvey Spencer, Cochranville, -----
1262	Royster's Rational Guano, -----	Frank Frederick, Reinhol'd Station, -----
2685	Royster's Seeding Down Guano, -----	Harvey L. Moses, Chester Springs, -----
1830	Royster's Seeding Down Guano, -----	J. M. Rider, Millville, -----
1267	Royster's Seeding Down Guano, -----	Walter Stumpt, Robesonia, -----
1805	Royster's Vim Guano, -----	Great Valley Mills Co., Exton, -----
1439	Royster's Vim Guano, -----	David Reigel, Jones'own, -----
1853	Royster's Wonder Guano, -----	John P. Fisher, Douglassville, -----
1601	Royster's Wonder Guano, -----	McConnell Brothers, Hughesville, -----
	SCHAAL-SHELDON FERTILIZER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COM- PANY, BUFFALO, N. Y.	
1471	Royal, -----	Silas Farrell, Sizerville, -----
1472	Schaal's Corn and Potato, -----	Silas Farrell, Sizerville, -----
2091	Schaal-Sheldon Guano, -----	J. R. Houston, Harrisville, -----
	THE SCOTT FERTILIZER CO., ELKTON, MD.	
1360	Scott's Pennsylvania Potato Grower, -----	Edw. W. Rupert, Oxford, -----
2149	Scott's Potato Grower, -----	C. C. Parry, Rushland, -----
2110	Scott's Potato Grower, -----	M. L. Rosenberger, Quakertown, -----
1259	Scott's Sure Growth Super Phosphate, -----	Edw. W. Rupert, Oxford, -----
2150	Scott's Victory Brand, -----	C. C. Parry, Rushland, -----
	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA.	
1596	Swift-Sure Grain Grower, -----	J. A. Werner, Weatherly, -----
1800	Swift-Sure Super Phosphate for General Use, -----	W. E. Erwin & Son, Somerset, -----
	THE SOUTHERN FERTILIZING COM- PANY, BALTIMORE, MD.	
1430	Farmers Choice, -----	S. M. Grim, Moxawney, -----
	SWIFT & COMPANY, BALTIMORE, MD.	
2200	Swift's Champion Wheat and Corn Grower 2-12-2.	T. Bender & Son, Muney Valley, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.						Chemist's number.						
	Found.	Guaranteed.	Total.			Available.		Insoluble.		Found.			Guaranteed.			Present as Muriate.		Present as Sulphate.			
			Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Present as Sulphate.	Selling price per ton at place of selection.										
5.95	0.81	0.82	7.91	9.00	*7.43	8.00	0.48	1.00	4.91	5.00	4.91	-----	34 50	1432							
3.17	1.01	0.82	9.40	9.00	8.86	8.00	0.54	1.00	5.06	5.00	5.06	-----	34 50	2012							
4.80	*2.91	3.29	10.94	9.00	9.42	8.00	1.52	1.00	5.35	6.00	8.35	-----	45 25	1647							
4.50	*2.70	3.29	9.86	9.00	8.92	8.00	0.94	1.00	*5.83	7.00	5.83	-----	-----	1275							
4.16	0.90	0.82	10.21	9.00	9.25	8.00	0.96	1.00	1.25	1.00	1.25	-----	-----	1276							
1.45	1.82	1.64	9.49	9.00	8.11	8.00	1.38	1.00	4.51	4.00	4.51	-----	29 00	2075							
2.37	2.06	1.65	12.93	13.00	12.39	12.00	0.54	1.00	2.48	2.00	2.48	-----	34 33	2170							
5.22	1.56	1.65	13.89	13.00	12.73	12.00	1.16	1.00	1.97	2.00	1.97	-----	33 00	1688							
1.77	1.76	1.65	8.34	9.00	*7.80	8.00	0.54	1.00	1.96	2.00	1.96	-----	30 00	1969							
2.92	1.64	0.82	9.32	9.00	8.78	8.00	0.54	1.00	4.13	4.00	4.13	-----	30 00	1970							
3.88	0.86	0.82	9.26	9.00	8.22	8.00	1.04	1.00	4.43	4.00	4.43	-----	-----	1272							
1.27	1.68	1.65	9.44	8.50	8.30	8.00	1.14	0.50	10.16	10.00	10.16	-----	42 75	1852							
7.13	1.70	1.65	8.61	8.50	8.05	8.00	0.56	0.50	10.48	10.00	10.48	-----	60 00	1317							
1.12	1.00	0.82	8.98	8.50	7.90	8.00	1.08	0.50	1.34	1.00	1.34	-----	28 00	1954							
1.30	1.05	0.82	9.38	8.50	8.32	8.00	1.06	0.50	1.19	1.00	1.19	-----	27 50	1832							
3.33	1.67	1.65	9.32	8.50	8.46	8.00	0.88	0.50	2.04	2.00	2.04	-----	-----	1441							
4.39	0.90	0.82	8.48	8.50	*7.26	8.00	1.12	0.50	1.97	2.00	1.97	-----	33 00	1466							
4.27	1.00	0.82	9.34	8.50	8.30	8.00	1.04	0.50	2.23	2.00	2.23	-----	28 75	1831							
1.22	0.95	0.82	9.40	8.50	8.28	8.00	1.12	0.50	2.32	2.00	2.32	-----	27 30	2126							
1.55	1.75	1.65	9.60	8.50	8.50	8.00	1.10	0.50	3.07	3.00	3.07	-----	34 00	1953							
2.10	1.72	1.65	9.99	8.50	8.65	8.00	1.34	0.50	3.10	3.00	3.10	-----	34 10	1828							
5.83	1.70	1.65	9.59	8.50	*7.79	8.00	1.80	0.50	3.13	3.00	3.13	-----	34 00	1368							
4.59	0.92	0.82	9.32	8.50	8.08	8.00	1.24	0.50	4.40	4.00	4.40	-----	30 25	1262							
3.22	1.04	0.82	10.54	9.50	9.68	9.00	0.86	0.50	3.16	3.00	3.16	-----	34 00	2085							
2.05	0.80	0.82	10.52	9.50	9.38	9.00	1.14	0.50	3.00	3.00	3.00	-----	31 25	1830							
5.30	1.00	0.82	10.43	9.50	9.51	9.00	0.92	0.50	3.13	3.00	3.13	-----	32 50	1267							
5.45	1.82	1.65	13.15	12.50	12.49	12.00	0.66	0.50	2.11	2.00	2.11	-----	37 00	1805							
6.76	1.75	1.65	13.40	12.50	12.50	12.00	0.90	0.50	2.10	2.00	2.10	-----	36 00	1439							
2.93	1.05	0.82	9.94	8.50	8.50	8.00	1.44	0.50	3.63	3.00	3.03	-----	30 75	1853							
2.94	1.03	0.82	9.60	8.50	9.22	8.00	0.38	0.50	3.31	3.00	3.31	-----	35 00	1691							
6.54	0.99	0.82	8.24	8.00	7.02	7.00	1.22	1.00	1.12	1.00	1.12	-----	33 50	1471							
3.53	1.67	1.65	10.29	9.00	8.82	8.00	1.46	1.00	4.14	4.00	2.90	1.24	47 00	1472							
2.82	1.00	0.82	9.98	9.00	8.76	8.00	1.22	1.00	4.43	4.00	4.43	-----	34 00	2091							
5.37	0.84	0.82	8.94	-----	8.10	8.00	0.84	-----	2.22	2.00	2.22	-----	30 00	1360							
3.10	1.87	1.65	11.28	-----	10.28	10.00	1.00	-----	4.80	4.00	4.80	-----	35 50	2149							
2.62	1.68	1.65	12.24	-----	11.12	10.00	1.12	-----	4.42	4.00	4.42	-----	35 00	2110							
4.96	1.46	1.65	8.87	-----	*7.47	8.00	1.40	-----	*1.75	2.00	1.75	-----	33 50	1350							
2.12	1.85	1.65	8.98	-----	8.16	8.00	0.82	-----	3.22	3.00	3.22	-----	32 50	2150							
6.88	1.63	1.65	10.64	9.00	9.34	8.00	1.30	1.00	5.95	5.00	5.95	-----	32 50	1596							
4.91	2.72	2.46	11.90	10.00	9.96	8.00	1.94	2.00	3.89	3.00	3.89	-----	38 00	1800							
6.35	0.90	0.82	10.84	10.00	9.14	9.00	1.70	1.00	2.03	2.00	2.03	-----	28 50	1420							
3.05	1.58	1.65	13.33	12.00	13.07	12.00	0.26	-----	1.88	2.00	1.88	-----	43 85	2268							

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1330	Swift's Champion Wheat and Corn Grower 2-12-2.	J. C. Benfield, Milton, -----
1585	Swift's Champion Wheat and Corn Grower 2-12-2.	M. S. Schwalm, Hegins, -----
1737	Swift's Champion Wheat and Corn Grower 2-12-2.	H. Van Vleet, East Stroudsburg, -----
1501	Swift's Diamond B. Fertilizer 3-8-5, -----	D. L. Hertzler, Mechanicsburg, -----
1915	Swift's Grain Fertilizer 1-8-2, -----	Wm. B. Barnitz, Carlisle, -----
1497	Swift's Grain Fertilizer 1-8-2, -----	D. L. Hertzler, Mechanicsburg, -----
1707	Swift's Grain Fertilizer 1-8-2, -----	A. L. Steigerwalt, Andreas, -----
2122	Swift's Red Steer 2-8-2, -----	Charles Beers, Easton, -----
2206	Swift's Red Steer 2-8-2, -----	C. A. Conrad, Hop Bottom, -----
1372	Swift's Red Steer 2-8-2, -----	Pomona No. 3 Grange Exchange, West Chester.
1709	Swift's Red Steer 2-8-2, -----	L. A. Steigerwalt, Andreas, -----
1916	Swift's Reliable Grain Fertilizer 1-8-1, -----	Wm. B. Barnitz, Carlisle, -----
2100	Swift's Reliable Grain Fertilizer 1-8-1, -----	I. M. Osborn, Kennard, -----
1329	Swift's Special Corn and Wheat Grower 2-10-4.	J. O. Benfield, Milton, -----
1864	Swift's Special Corn and Wheat Grower 2-10-4.	Maurice Flickinger, Lebanon, -----
1703	Swift's Special Corn and Wheat Grower 2-10-4.	L. A. Steigerwalt, Andreas, -----
I. P. THOMAS & SON CO., PHILADELPHIA, PA.		
2046	Farmer's Choice 2-12-2, -----	Fred Seldonridge, Gap, -----
1778	Farmer's Choice 2-12-2, -----	Yeakel & Huzzard, Norristown, -----
1797	General Use Fertilizer 2-8-2, -----	Wm. C. Ball, Media, -----
1597	General Use Fertilizer 2-8-2, -----	J. J. Gerhard, Weatherly, -----
1875	General Use Fertilizer 2-8-2, -----	B. F. Specht, Stoystown, -----
2207	General Use Fertilizer 2-8-2, -----	A. E. Woodruff & Son, Wysox, -----
2187	Grain Special Fertilizer 1-8-2, -----	A. M. Frederick, Fairchance, -----
1619	Grain Special Fertilizer 1-8-2, -----	Theo. M. Gridith & Son, Downingtown, -----
1664	Grain Special Fertilizer 1-8-2, -----	King Brothers, Uniontown, -----
1630	Grain Special Fertilizer 1-8-2, -----	Geo. K. Sunday, Hamburg, -----
1629	Improved Fertilizer 1-10-1, -----	Geo. K. Sunday, Hamburg, -----
1825	Peerless Fertilizer 1-9-3, -----	Preston Eves & Son, Millville, -----
2188	Superior Superphosphate 1-7-1, -----	A. M. Frederick, Fairchance, -----
1777	Tip Top Super Phosphate 3-8-4, -----	Yeakel & Huzzard, Norristown, -----
1847	Victor Potash Fertilizer 2-8-5, -----	C. S. Davidheiser, Gilbertsville, -----
1823	Victor Potash Fertilizer 2-8-5, -----	Preston Eves & Son, Millville, -----
1696	Victor Potash Fertilizer 2-8-5, -----	J. J. Gerhard, Weatherly, -----
JACOB TRINLEY & SONS, LINFIELD, PA.		
2026	Trinley's Two-Eight-Two, -----	Mowrey-Latshaw Hardware Co., Spring City.
F. W. TUNNEUL & COMPANY, INC., PHILADELPHIA, PA.		
1600	Fall Crop Grower, -----	H. A. Mendenhall, Toughkenamon, -----
1601	Sweet Potato Manure, -----	H. A. Mendenhall, Toughkenamon, -----
VIRGINIA-CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD.		
1924	V. C. Fish and Potash Mixture, -----	Roy Fletcher, Everett, -----
1265	V. C. Fish and Potash Mixture, -----	Lawrence Schaffer, Tulpehocken, -----
2178	V. C. One Nine Three, -----	W. J. Duvall, Bentleyville, -----
1280	V. C. One Nine Three, -----	Lawrence Schaffer, Tulpehocken, -----
1282	V. C. Special Compound, -----	Lawrence Schaffer, Tulpehocken, -----
2177	V. C. Standard Crop Grower, -----	W. J. Duvall, Bentleyville, -----
1925	V. C. Standard Grain Grower, -----	Roy Fletcher, Everett, -----
1279	V. C. Standard Grain Grower, -----	Lawrence Schaffer, Tulpehocken, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.		
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.		Present as Sulphate.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.			Present as Muriate.	Present as Sulphate.	Present as Muriate.	Present as Sulphate.		
6.82	1.83	1.65	11.54	12.00	*11.03	12.00	0.51	%	2.36	2.00	2.36	2.36	35 15	1330		
3.07	1.91	1.65	13.16	12.00	12.70	12.00	0.46	—	2.51	2.00	2.51	—	—	1585		
4.61	2.01	1.65	12.60	12.00	12.10	12.00	0.50	—	2.69	2.00	2.69	—	50 00	1737		
2.73	2.51	2.47	9.24	8.00	8.80	8.00	0.44	—	5.18	5.00	5.18	—	38 50	1501		
1.62	1.00	0.82	8.92	8.00	8.52	8.00	0.40	—	1.92	2.00	1.92	—	28 00	1915		
3.05	0.96	0.82	8.50	8.00	8.24	8.00	0.26	—	1.98	2.00	1.98	—	27 75	1497		
2.25	1.00	0.82	8.51	8.00	8.31	8.00	0.20	—	2.12	2.00	2.12	—	28 50	1707		
1.47	1.71	1.65	8.83	8.00	8.47	8.00	0.36	—	2.29	2.00	2.29	—	19 50	2122		
5.02	*1.42	1.65	7.95	8.00	*7.80	8.00	0.15	—	2.40	2.00	2.40	—	45 00	2206		
3.48	1.76	1.65	9.20	—	8.66	8.00	0.54	—	2.01	2.00	2.01	—	30 00	1372		
2.40	1.91	1.65	9.02	8.00	8.74	8.00	0.28	—	2.28	2.00	2.28	—	31 00	1709		
1.02	1.09	0.82	9.12	8.00	8.78	8.00	0.34	—	1.05	1.00	1.05	—	26 50	1916		
1.20	1.00	0.82	8.74	8.00	8.20	8.00	0.54	—	1.60	1.00	1.60	—	37 50	2100		
6.21	1.65	1.65	9.95	10.00	*9.62	10.00	0.33	—	4.47	4.00	4.47	—	35 80	1329		
2.57	1.85	1.65	11.38	10.00	11.02	10.00	0.36	—	3.95	4.00	3.95	—	35 50	1804		
2.97	1.72	1.65	10.80	10.00	10.53	10.00	0.22	—	4.54	4.00	4.54	—	30 00	1708		
4.00	1.99	1.65	14.03	12.50	13.55	12.00	0.48	0.50	2.19	2.00	2.19	—	—	2046		
5.80	2.01	1.65	14.09	12.50	13.35	12.00	0.74	0.50	2.14	2.00	2.14	—	38 50	1778		
3.02	1.88	1.65	9.63	8.50	8.85	8.00	0.78	0.50	2.28	2.00	2.28	—	40 00	1797		
8.06	1.75	1.65	9.36	8.50	8.48	8.00	0.88	0.50	2.26	2.00	2.26	—	—	1597		
1.42	1.98	1.65	10.13	8.50	9.23	8.00	0.90	0.50	2.44	2.00	2.44	—	35 00	1875		
7.15	1.54	1.65	10.56	8.50	9.60	8.00	0.96	0.50	2.08	2.00	2.08	—	35 00	2207		
7.42	1.10	0.82	10.54	8.70	9.30	8.00	1.24	0.50	2.11	2.00	2.11	—	32 00	2187		
4.32	1.01	0.82	9.75	8.50	8.91	8.00	0.84	0.50	2.71	2.00	2.71	—	33 00	1619		
5.75	1.05	0.82	10.46	8.50	9.22	8.00	1.24	0.50	2.15	2.00	2.15	—	35 00	1664		
6.22	1.11	0.82	9.76	8.50	8.60	8.00	1.16	0.50	2.10	2.00	2.10	—	24 50	1630		
5.54	1.23	0.82	12.08	—	11.02	10.00	1.6	—	1.54	1.00	1.54	—	25 00	1829		
6.30	1.05	0.82	11.16	9.50	9.88	9.00	1.28	0.50	3.17	3.00	3.17	—	31 00	1825		
7.40	1.00	0.82	9.02	7.50	7.94	7.00	1.08	0.50	1.22	1.00	1.22	—	28 00	2188		
5.63	2.89	2.45	10.91	8.50	9.65	8.00	1.26	0.50	4.49	4.00	4.49	—	41 50	1777		
3.50	1.62	1.65	10.40	8.50	9.52	8.00	0.88	0.50	5.04	5.00	5.04	—	35 00	1847		
5.29	1.53	1.65	10.82	8.50	9.82	8.00	1.00	0.50	5.28	5.00	5.28	—	36 00	1823		
4.90	1.90	1.65	10.08	8.50	9.24	8.00	0.84	0.50	5.02	5.00	5.02	—	—	1696		
4.27	2.03	1.64	11.97	9.00	10.41	8.00	1.56	1.00	2.31	2.00	2.31	—	34 00	2036		
4.60	1.27	0.82	10.57	9.00	8.49	8.00	2.08	1.00	2.31	2.00	2.31	—	31 00	1600		
5.69	1.87	1.64	10.47	9.00	8.39	8.00	2.08	1.00	2.39	2.00	2.39	—	34 00	1601		
3.62	2.00	1.65	10.60	9.00	8.80	8.00	1.80	1.00	3.42	3.00	3.42	—	35 00	1924		
5.30	1.76	1.65	10.58	9.00	8.52	8.00	2.06	1.00	3.04	3.00	3.04	—	32 50	1265		
2.67	1.02	0.82	11.48	10.00	10.00	9.00	1.48	1.00	3.58	3.00	3.58	—	38 00	2178		
6.08	0.90	0.82	11.25	10.00	9.87	9.00	1.38	1.00	2.94	3.00	2.94	—	30 25	1280		
5.14	1.06	0.82	10.18	9.00	8.76	8.00	1.42	1.00	1.10	1.00	1.10	—	27 25	1282		
3.22	2.00	1.65	10.12	9.00	8.80	8.00	1.32	1.00	2.05	2.00	2.05	—	36 50	2177		
6.70	1.00	0.82	9.61	9.00	8.65	8.00	0.96	1.00	2.34	2.00	2.34	—	30 00	1925		
5.92	1.11	0.82	10.06	9.00	8.94	8.00	1.22	1.00	2.41	2.00	2.41	—	27 50	1279		

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1510	WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA-CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA.	
1749	Wacco Crop Grower, -----	Geo. P. Livingston, East Berlin, -----
1504	Wacco Potato and Tobacco Manure, -----	E. S. Kelly, Gettysburg, -----
1997	Wacco Potato and Tobacco Manure, -----	Geo. P. Livingston, East Berlin, -----
	Wacco Potato and Tobacco Manure, -----	Quarryville Farmers Association, Quarryville.
1748	Wacco Regular Potato and Tobacco Grower, -----	E. S. Kelly, Gettysburg, -----
1508	Wacco Regular Potato and Tobacco Grower, -----	Geo. P. Livingston, East Berlin, -----
1996	Wacco Regular Potato and Tobacco Grower, -----	Quarryville Farmers Association, Quarryville.
1506	Wacco Wheat, Corn and Oats Mixture, -----	Geo. P. Livingston, East Berlin, -----
1377	YORK CHEMICAL WORKS, YORK, PA.	
1920	Grain Special, -----	Great Valley Mills Co., Paoli, -----
1932	Grain Special, -----	J. S. Hershberger, Everett, -----
1562	Grain Special, -----	J. Harry Summy, Landisville, -----
1766	One, Eight and One, -----	Enos H. Horst, Chambersburg, -----
1462	One, Eight and Two, -----	E. A. Beck, Lehighton, -----
1511	One, Eight and Two, -----	E. S. Berkey, Strausstown, -----
		Harry Pyle & Son, Chadds Ford Junction.
1375	Plow Brand, -----	Great Valley Mills Co., Paoli, -----
1588	Plow Brand, -----	Felix Herb, Pitman, -----
2195	Plow Brand, -----	Jacob H. Miller, Somerfield, -----
1613	Potato and Truck, -----	Harry Pyle & Son, Chadds Ford Junction.
		Felix Herb, Pitman, -----
1590	Royal Mixture, -----	Jacob H. Miller, Somerfield, -----
2193	Standard, -----	Harry Pyle & Son, Chadds Ford Junction.
1612	Standard, -----	Felix Herb, Pitman, -----
		Jacob H. Miller, Somerfield, -----
1589	Standard Potash, -----	Harry Pyle & Son, Chadds Ford Junction.
2192	Standard Potash, -----	H. L. Weitknecht, Northampton, -----
2147	Standard Potash, -----	
		Average, -----

FERTILIZERS—Concluded.

Moisture.	PHOSPHORIC ACID.												POTASH.				Chemist's number.	
	Total.			Available.			Insoluble.			Guaranteed.			Present as Muriate.			Present as Sulphate.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Present as Sulphate.	Selling price per ton at place of selection.				
3.39	*1.41	1.65	9.92	9.00	9.36	8.00	0.56	1.00	*4.24	5.00	4.24	-----	34 88	1510				
4.14	0.62	0.41	8.36	8.00	7.54	7.00	0.82	1.00	2.02	2.00	2.02	-----	26 00	1749				
3.28	1.32	0.41	8.96	8.00	8.40	7.00	0.56	1.00	*1.61	2.00	1.61	-----	24 88	1604				
3.65	0.54	0.41	7.78	8.00	7.34	7.00	0.44	1.00	1.88	2.00	1.88	-----	26 50	1997				
3.58	0.85	0.82	9.90	9.00	9.26	8.00	0.64	1.00	3.74	3.00	3.74	-----	29 50	1748				
4.31	0.81	0.82	10.02	9.00	9.36	8.00	0.66	1.00	3.65	3.00	3.65	-----	28 78	1508				
2.07	1.01	0.82	10.97	9.00	9.87	8.00	1.10	1.00	3.27	3.00	3.27	-----	30 00	1996				
4.45	0.51	0.41	8.91	9.00	8.45	8.00	0.46	1.00	1.03	1.00	1.03	-----	24 64	1506				
5.15	1.77	1.64	13.24	12.00	12.80	12.00	0.44	-----	2.41	2.00	2.41	-----	36 50	1377				
2.35	1.83	1.64	13.47	12.00	12.99	12.00	0.48	-----	2.09	2.00	2.09	-----	36 00	1920				
2.85	1.85	1.64	14.06	12.00	13.68	12.00	0.38	-----	2.33	2.00	2.33	-----	36 00	1982				
4.47	0.95	0.82	9.03	8.00	8.61	8.00	0.42	-----	1.23	1.00	1.23	-----	27 25	1502				
4.87	0.83	0.82	9.66	8.00	9.04	8.00	0.62	-----	2.41	2.00	2.41	-----	35 00	1706				
5.93	0.89	0.82	9.50	8.00	8.94	8.00	0.56	-----	2.23	2.00	2.23	-----	34 00	1402				
6.17	0.83	0.82	9.28	8.00	8.64	8.00	0.64	-----	2.45	2.00	2.45	-----	30 00	1611				
6.00	1.51	1.64	8.93	8.00	8.27	8.00	0.66	-----	2.05	2.00	2.05	-----	32 50	1375				
5.46	1.67	1.65	8.93	8.00	8.09	8.00	0.84	-----	2.46	2.00	2.46	-----	31 80	1588				
4.90	1.80	1.64	9.04	8.00	8.00	8.00	1.04	-----	1.86	2.00	1.86	-----	32 00	2195				
10.76	*3.50	4.10	8.66	8.00	7.91	8.00	0.75	-----	7.13	7.00	4.70	2.43	50 00	1613				
4.91	1.98	1.65	12.41	11.00	11.35	10.00	1.06	1.00	4.27	4.00	4.27	-----	35 60	1590				
4.85	1.72	1.64	8.79	8.00	8.23	8.00	0.56	-----	5.28	5.00	5.28	-----	35 00	2193				
8.08	1.96	1.64	8.88	8.00	8.28	8.00	0.60	-----	5.88	5.00	5.88	-----	37 00	1612				
4.47	0.89	0.82	8.76	8.00	8.10	8.00	0.66	-----	4.45	4.00	4.45	-----	30 40	1589				
6.80	0.80	0.82	9.39	8.00	8.65	8.00	0.74	-----	4.57	4.00	4.57	-----	31 00	2192				
2.97	0.97	0.82	9.04	8.00	8.30	8.00	0.74	-----	4.65	4.00	4.65	-----	30 00	2147				
4.08	1.34	-----	10.14	-----	9.04	-----	1.10	-----	2.86	-----	-----	\$32 88	-----					

*Deficient.

TABLE III—NITROGEN AND PHOS
Including Dissolved Bones

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1978	ACME BONE FERTILIZER COMPANY, LANCASTER, PA. Acme Brand, -----	Samuel Sheets, Petersburg, -----
2111	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK. N. Y.	
1995	Ammoniated Fertilizer A, -----	John Greenleaf, Quarryville, -----
1711	Ammoniated Fertilizer A, -----	N. D. Hunsicker, Snyders, -----
2117	Ammoniated Fertilizer A, -----	Edward S. Lambrite, Pipersville, -----
1986	Ammoniated Fertilizer AA, -----	John Greenleaf, Quarryville, -----
1533	Ammoniated Fertilizer AAA, -----	O. Van Buskirk, Clarke Summit, -----
2008	Bowker's Super Phosphate with Ammonia 2%.	Newton Lantz, Atglen, -----
2210	Breiley's Special Superior Compound, -----	Asa Wilcox, Millerton, -----
2039	Josiah Cope's Fish Phosphate, -----	Jones Eavenson, Christiana, -----
1825	Crocker's Special Grain Grower, -----	I. W. Bunnell, Pleasant Mount, -----
1521	Ludlam's Cecrops Sickle Fertilizer No. 1, -----	Curtis Bushey, Clear Spring, -----
1522	Ludlam's Cecrops Sickle Fertilizer No. 2, -----	Curtis Bushey, Clear Spring, -----
1535	Nassau Ammoniated Potato Compound, -----	A. A. Chamberlain, Gouldsboro, -----
1105	Nassau Common Sense Fertilizer Revised, -----	Wm. B. Barnitz, Carlisle, -----
1904	Nassau Old Hickory Revised, -----	Wm. B. Barnitz, Carlisle, -----
1403	Nassau Old Hickory Revised, -----	H. S. Lesher, Bernville, -----
1930	Pollock's Ammoniated Fertilizer AA, -----	Albert Dively, Bedford, -----
1921	Schaal-Sheldon's Ammoniated Superphosphate, -----	J. E. Jackson, Everett, -----
2116	Soluble Grain Mixture, -----	Edward S. Lambrite, Pipersville, -----
2006	Special Bone Mixture, -----	Newton Lantz, Atglen, -----
2013	Susquehanna Winners Phosphate, -----	Gideon Stoltzfus, Supplee, -----
1481	J. E. Tygert's Ammoniated Fertilizer A, -----	F. A. Ackley, Westfield, -----
1515	Woolridge's General Crop Grower, -----	Robert Wentz, Wellsville, -----
1627	AMERICAN FERTILIZING COMPANY, BALTIMORE, MD. Ameriean Fish Special, -----	Barnett Brothers, Oxford, -----
1701	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
1675	Ammoniated Superphosphate, -----	Geo. W. Anderson, Cessna, -----
1300	Armour's Grain Special, -----	Jeff Altfather, Berlin, -----
1888	Armour's Grain Special, -----	Geo. W. Anderson, Cessna, -----
1796	Tuscarora Big Chief, -----	Geo. L. Moore, Brownsville, -----
2169	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	A. F. Leidy, Delphi, -----
1381	Baugh's Grain and Grass Grower, -----	
2201	Baugh's Half and Half Mixture, -----	H. B. Low & Son, Orangeville, -----
1803	Baugh's Half and Half Mixture, -----	Bunting Brothers, Oxford, -----
1836	Baugh's Peninsular Grain Producer, -----	Farmers Supply Co., Milan, -----
1678	Baugh's Peninsular Grain Producer, -----	J. W. Craft & Sons, Ambler, -----
2122	Baugh's Peninsular Grain Producer, -----	A. W. Eves, Millville, -----
	Baugh's The Old Stand-By Dissolved Animal Base.	C. H. Schmucker, Friedens, -----
		Lehigh Exchange Inc., Germansville, -----
1542	BOWKER FERTILIZER COMPANY, SUB- SIDIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL COMPANY, NEW YORK, N. Y.	George Chichura, Olyphant, -----
	Bowker's Superphosphate with Ammonia 2%.	

PHORIC ACID FERTILIZERS.

And Other Like Products.

Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.		
	Found.	Guaranteed.	Total.		Available.		Insoluble.					
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.				
%	% 0.82	% 0.82	% 10.77	% 10-13	% 9.63	% 9-11	% 1.14	% 1.00	\$			
2.50											1978	
1.55	1.00	0.82	11.40	11.00	10.38	10.00	1.02	1.00	28 00	1995		
2.09	1.04	0.82	11.67	11.00	10.77	10.00	0.90	1.00	17 11			
1.87	1.15	0.82	12.79	11.00	10.65	10.00	2.14	2.00	32 00	2117		
7.47	1.91	1.65	11.54	11.00	10.44	10.00	1.10	1.00	30 00	1986		
2.11	2.60	2.47	12.96	11.00	10.94	10.00	2.02	1.00	39 00	1533		
2.07	1.85	1.65	12.25	11.00	10.83	10.00	1.42	1.00	31 00	2003		
4.27	*1.06	1.65	10.84	11.00	10.18	10.00	0.66	1.00	40 00	2210		
1.12	0.87	0.82	9.82	9.00	8.14	8.00	1.68	1.00	27 00	2039		
3.45	2.00	1.65	11.93	11.00	*9.68	10.00	2.25	1.00	35 00	1325		
1.89	1.00	0.82	11.86	11.00	10.82	10.00	1.04	1.00	27 47	1521		
2.05	1.86	1.65	12.12	11.00	10.88	10.00	1.24	1.00	31 22	1522		
3.60	3.50	2.47	12.22	11.00	10.92	10.00	1.30	1.00	47 20	1536		
1.22	1.88	1.65	12.26	11.00	11.02	10.00	1.24	1.00	30 50	1905		
1.40	1.03	0.82	11.70	11.00	10.82	10.00	0.88	1.00	27 00	1904		
2.25	0.90	0.82	11.89	11.00	10.75	10.00	1.14	1.00	28 25	1403		
3.37	1.96	1.65	12.05	11.00	10.76	10.00	1.32	1.00	30 00	1980		
0.92	1.05	0.82	9.53	9.00	8.29	8.00	1.24	1.00	28 00	1921		
1.08	1.13	0.82	10.66	9.00	8.56	8.00	1.50	1.00		2116		
1.80	1.56	1.23	19.17	19.00	11.35	10.00	7.82	9.00	30 00	2006		
1.35	1.98	1.65	11.95	11.00	10.41	10.00	1.54	1.00		2013		
2.08	0.90	0.82	11.84	11.00	10.52	10.00	1.32	1.00	34 00	1481		
5.76	1.30	0.82	9.98	9.00	8.44	8.00	1.54	1.00		1515		
3.74	1.91	1.65	13.91	12.00	11.93	11.00	1.98	1.00	32 00	1627		
2.76	0.99	0.82	12.26	10.50	10.66	10.00	1.60	0.50	30 00	1301		
2.12	1.81	1.65	12.04	10.50	10.88	10.00	1.16	0.50	35 00	1675		
2.19	1.86	1.65	12.04	10.50	10.72	10.00	1.32	0.50	33 50	1300		
1.45	1.77	1.65	12.00	10.50	10.70	10.00	1.30	0.50	38 50	1888		
2.53	1.18	0.82	11.82	10.50	10.38	10.00	1.44	0.50	31 00	1786		
2.02	2.03	1.65	11.06	11.00	10.12	10.00	0.94	1.00	33 25	2169		
2.45	1.50	1.23	20.22	17.00	11.90	12.00	8.32	5.00	33 00	1381		
1.72	1.67	1.23	19.92	17.00	12.62	12.00	7.30	5.00	37 00	2201		
3.17	1.15	0.82	10.52	9.00	9.76	9.00	0.76		30 00	1803		
2.56	1.07	0.82	10.84	9.00	9.62	9.00	1.22		27 60	1836		
2.21	1.05	0.82	10.98	9.00	9.21	9.00	1.72		28 00	1678		
2.65	1.87	1.65	13.46	12.00	12.58	12.00	0.88		33 25	2132		
4.42	1.95	1.65	11.88	11.00	10.84	10.00	1.05	1.00	38 00	1542		

*Deficient.

TABLE III—NITROGEN AND PHOS

Chemist's number.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1898	THE CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD.	Burgettstown Feed & Supply Co., Bur- gettstown.
1760	Gro-All Acme Brand, -----	Mercersburg Elevator Co., Mercersburg.
1701	Gro-All Farmers Compound, -----	Mahlon Hamm, Lehighton, -----
1672	Gro-All Farmers Compound, -----	Lloyd Hay, Meyersdale, -----
1624	Gro-All Fish Compound, -----	S. K. Chambers & Brother, Elkview, -----
1482	Gro-All Planters Compound, -----	M. S. Haskell, Knoxville, -----
1646	THE COE-MORTIMER COMPANY, SUB- SIDIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL COMPANY, NEW YORK, N. Y. E. Frank Coe's XXV Ammoniated Phos- phate.	C. S. Zimmerman, Quenten, -----
1333	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.	Farmers Co-operative Association, Lewis- town.
1865	Farmers Crop Grower, -----	J. H. Heterich, Palmyra, -----
1666	Farmers Golden Sheaf, -----	J. F. Hogsett & Sons, Uniontown, -----
1636	GRIFFITH & BOYD CO., BALTIMORE, MD.	S. K. Chambers & Brother, Elkview, -----
1625	Griffith & Boyd Co.'s Farmers Mixture, -----	S. K. Chambers & Brother, Elkview, -----
1899	Griffith & Boyd Co.'s Fish and Blood Mix- ture	Peacock Brothers, Huston, -----
1788	Griffith & Boyd Co.'s Peerless Mixture, -----	Griffith & Boyd Co.'s Peerless Mixture, -----
2129	Griffith & Boyd Co.'s Peerless Mixture, -----	J. M. Hiltebeitel, Green Lane, -----
1487	S. M. HESS & BROTHER, INC., SUBSI- DIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL COMPANY, NEW. YORK, N. Y.	P. Hoffman & Brother, Raubsville, -----
1271	Ammoniated Grain Grower, -----	P. Hoffman & Brother, Raubsville, -----
2033	P. HOFFMAN & BROTHER, RAUBS- VILLE, PA.	C. E. Raucher, Blossburg, -----
2018	Hoffmans All Crop Fertilizer, -----	A. D. Engle, Lebanon, -----
1944	INTERNATIONAL AGRICULTURAL COR- PORATION, BUFFALO FERTILIZER WORKS, BUFFALO, N. Y.	E. B. Fritz & Son, Quarryville, -----
1945	Buffalo Crop Grower, -----	Henry Zook, Elverson, -----
1271	LANCASTER BONE FERTILIZER COM- PANY, LANCASTER, PA.	C. S. Zimmerman, Bismarck, -----
2033	Ammoniated Grain Manure, -----	C. S. Zimmerman, Bismarck, -----
2018	Lancaster Peerless, -----	Horace Kinsley, Pine Grove, -----
1944	Lancaster Peerless, -----	S. S. Eshleman, Elizabethtown, -----
1945	No. 11 Keystone Brand, -----	Harry Keefer, Pine Grove, -----
1944	No. 14 Wheat and Grass, -----	Levan's Ammoniated Super Phosphate Fertilizer.
2067	Levan's Farmers Mixture, -----	Levan's Farmers Mixture, -----
1976	Levan's Farmers Mixture, -----	Levan's Farmers Mixture, -----
1714	Levan's Farmers Mixture, -----	Lebanon Fertilizer Works, Leba- non, PA.

PHORIC ACID FERTILIZERS—Continued.

Moisture.	NITROGEN.		PHOSPHORIC ACID.								Chemist's number.	
			Total.		Available.		Insoluble.					
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
1.80	% 0.97	% 0.82	% 9.71	% 8.50	% 9.13	% 8.00	% 0.58	% 0.50	\$ 30 00		1898	
2.91	0.82	0.82	9.24	-----	8.48	8.00	0.76	-----	27 00		1760	
3.73	1.44	1.23	15.33	14.50	14.46	14.00	0.92	0.50	31 90		1701	
3.69	1.35	1.23	15.69	14.50	14.39	14.00	1.30	0.50	-----		1672	
2.98	1.65	1.25	11.38	10.50	10.42	10.00	0.96	0.50	30 00		1624	
6.39	*1.45	1.65	11.59	-----	10.93	10.00	0.66	-----	36 00		1482	
1.72	1.01	0.82	11.42	11.00	10.46	10.00	0.96	1.00	32 00		1646	
5.25	0.86	0.82	9.82	9.00	8.56	8.00	1.26	1.00	22 85		1333	
5.82	1.80	1.65	12.88	11.00	12.52	10.00	0.36	1.00	29 00		1865	
8.74 1.11	1.78 1.75	1.65 1.44	11.00 9.60	10.00 8.00	9.86 8.38	9.00 7.00	1.14 1.22	1.00 1.00	35 00 30 00		1666 1626	
2.00 1.80	0.68 0.76	0.41 0.41	10.19 10.50	9.00 9.00	9.29 9.64	8.00 8.00	0.90 0.86	1.00 1.00	28 00 26 50		1625 1899	
1.82	1.29	0.82	10.20	9.00	9.08	8.00	1.12	1.00	29 00		1788	
1.75	1.23	0.82	17.18	10.00	12.90	10.00	4.28	-----	25 00		2129	
2.27	0.92	0.80	13.02	11.00	10.68	10.00	2.34	1.00	43 00		1487	
1.98 2.00 1.92	0.95 1.87 1.76	0.82 1.60 1.60	8.93 10.12 11.68	10.00 11.00 11.00	*8.56 9.84 10.66	9.00 10.00 10.00	0.37 0.28 1.02	1.00 1.00 1.00	----- 27 00 -----		1271 2033 2018	
1.50 2.45	*0.55 1.01	----- -----	10.70 12.95	----- -----	8.80 11.03	8.00 10.00	1.90 1.92	1.00 1.00	30 50 33 00		1944 1945	
3.92	1.63	1.65	10.78	11.00	10.64	10.00	0.14	1.00	-----		2067	
2.65 4.10	0.85 1.20	0.82 0.82	10.83 10.93	11.00 11.00	10.47 10.41	10.00 10.00	0.36 0.52	1.00 1.00	----- 27 50		1976 1714	

*Deficient.

TABLE III—NITROGEN AND PHOS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2057	THE MARTIN FERTILIZER CO., PHILADELPHIA, PA. Martin's Bull Head Brand Crop Producer,	Clayton Kimmel, Orwigsburg, -----
1353	MILLER FERTILIZER COMPANY BALTIMORE, MD.	Hartley & Blaine, Turbotville, -----
2090	M. B. S., -----	G. P. Atwell, Grove City, -----
1791	Miller's No. 1 Special, -----	A. K. Kulp, Pottstown, -----
1971	NITRATE AGENCIES COMPANY, BALTIMORE, MD. Pennsylvania Federated Farmers Association 2-10-0.	Clinton Co-operative Association, Lock Haven.
1745	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL COMPANY, BALTIMORE, MD. Patapsco Farmers Reliance, -----	E. C. Thomas, Gettysburg, -----
1460	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD. Piedmont Special Crop Grower, -----	John G. Simpson, Huntingdon, -----
1364	RASIN-MONUMENTAL COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD.	E. H. Keen & Son, Parksburg, -----
1605	Rasin's Special Fish Guano, ----- Rasin's Special Fish Mixture, -----	W. H. Walker & Co., Kennett Square, -----
1815	READING BONE FERTILIZER CO., READING, PA.	G. B. Correll, Newfoundland, -----
1268	Animal Tankage Mixture, -----	Isaac H. Leshner, Bernville, -----
1336	Dissolved Animal Matter, -----	W. M. Simington, Potts Grove, -----
1312	Dissolved Animal Matter, -----	G. B. Correll, Newfoundland, -----
1433	Reading Special Grain and Grass Producer, -----	C. E. Fister, Kutztown, -----
1314	Reading Special Grain and Grass Producer, -----	G. B. Correll, Newfoundland, -----
	Reading Special Potato and Tobacco Manure.	
2078	READING CHEMICAL CO., READING, Reading Soil Builder, -----	S. L. Harrison, Wilkes-Barre, -----
1829	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.	J. M. Rider, Millville, -----
1594	Royster's Honor Brand, ----- Royster's Keystone Brand, -----	Harry Lucas, Hegins, -----
2102	SCHAAL-SHELDON FERTILIZER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BUFFALO, N. Y.	
1473	Ammoniated Superphosphate No. 1, ----- Ammoniated Superphosphate No. 2, -----	W. T. Boyd, Sharpsville, ----- Silas Farrell, Sizerville, -----
1799	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA. Swift Sure Spring and Fall Trade, -----	W. E. Erwin & Son, Somerton, -----
1498	SWIFT & COMPANY, BALTIMORE, MD. Swift's Ammoniated Phosphate 1-10-0, -----	D. L. Hertzler, Mechanicsburg, -----

PHORIC ACID FERTILIZERS—Continued.

Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.		
	Found.	Guaranteed.	Total.		Available.		Insoluble.					
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.				
% 2.22	% 1.15	% 1.02	% 14.42	% 11.00	% 10.96	% 10.60	% 3.46	% 1.00	\$ -----	2067		
4.65	0.51	-----	9.34	-----	8.84	8.00	0.50	0.56	25 12	1353		
1.90	1.65	-----	11.52	-----	10.04	10.00	1.48	0.50	34 00	2090		
2.92	1.64	-----	11.66	-----	10.02	10.00	1.64	0.50	32 50	1791		
2.62	1.87	1.64	11.62	11.00	11.20	10.00	0.42	1.00	30 05	1971		
1.97	1.01	0.82	10.35	9.00	8.75	8.00	1.60	1.00	-----	1745		
3.80	0.94	0.82	11.89	-----	11.17	10.00	0.72	-----	32 00	1466		
4.43	1.72	1.65	13.68	12.00	11.52	11.00	2.16	1.00	33 50	1364		
1.50	0.98	0.82	11.35	11.00	10.02	10.00	1.33	1.00	31 00	1605		
2.53	2.06	1.64	17.42	15.00	14.98	14.00	2.44	1.00	45 50	1315		
5.44	1.00	0.82	11.54	11.00	10.72	10.00	0.82	1.00	27 25	1268		
6.99	0.91	0.82	10.72	11.00	9.87	10.00	0.85	1.00	25 35	1336		
3.48	1.20	0.82	8.20	8.00	7.28	7.00	0.92	1.00	30 25	1312		
3.54	1.10	0.82	8.32	8.00	7.70	7.00	0.62	1.00	27 75	1433		
5.09	0.86	0.82	13.27	13.00	*11.70	12.00	1.57	1.00	38 00	1314		
2.07	1.77	1.64	11.86	11.00	10.78	10.00	1.08	1.00	-----	2078		
3.10	1.74	1.65	11.83	10.50	10.06	10.00	1.76	0.50	31 75	1829		
2.20	2.20	2.06	13.52	12.50	*11.68	12.00	1.84	0.50	-----	1594		
1.20	1.01	0.82	12.96	11.00	11.50	10.00	1.46	1.00	-----	2102		
1.32	1.99	1.65	12.29	11.00	10.82	10.00	1.46	1.00	26 00	1473		
4.03	2.13	1.64	15.32	14.00	12.82	12.00	2.50	2.00	35 00	1799		
2.92	0.99	0.82	11.20	10.00	10.94	10.00	0.26	-----	27 00	1498		

*Deficient.

TABLE III—NITROGEN AND PHOS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1620	I. P. THOMAS & SON CO., PHILADELPHIA, PA.	
1574	Thomas Triumph Manure 1-10-0, -----	Theo. M. Griffith & Son, Downingtown,
1628	Thomas Triumph Manure 1-10-0, -----	John Maurer, Pitman, -----
	Thomas Wheat and Corn Guano, -----	Geo. K. Sonday, Hamburg, -----
2024	JACOB TRINLEY & SONS, LINFIELD, PA.	
	Favorite Phosphate, -----	Mowrey-Latshaw Hardware Co., Spring City.
1770	F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA.	
1768	Fish Manure, -----	W. B. Passmore, Embreeville, -----
1769	Grain Manure, -----	W. B. Passmore, Embreeville, -----
	1921 Potato and Vegetable Manure, -----	W. B. Passmore, Embreeville, -----
2092	VIRGINIA CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD.	
	V. C. Special Fish Mixture, -----	W. H. Bochart, Eau Claire, -----
2030	WASHINGTON, ALEXANDER & COOKE AFFILIATED WITH VIRGINIA-CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA.	
	Wacco Half and Half, -----	Quarryville Farmers Association, Quarryville.
1378	YORK CHEMICAL WORKS, YORK, PA.	
1446	Crop Grower, -----	Great Valley Mills Co., Paoli, -----
	Prosperity, -----	Farmers Co-operative Association, State College.
		Average, -----

PHORIC ACID FERTILIZERS—Concluded.

Moisture.	NITROGEN.			PHOSPHORIC ACID.						Chemist's number.	
	Found.		Guaranteed.	Total.		Available.		Insoluble.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.		
2.57	1.21	0.82		12.10	10.50	10.64	10.00	1.46	0.50	\$32.00	
5.09	1.25	0.82		13.07	10.50	12.55	10.00	0.52	0.50	\$33.75	
5.20	1.84	1.65		12.15	10.50	11.61	10.00	0.54	0.50	\$27.50	
4.55	2.07	1.64		12.92	11.00	11.82	10.00	1.10	1.00	\$33.00	
3.30	2.01	1.64		13.20	11.00	10.36	10.00	2.84	1.00	\$33.75	
2.90	1.22	0.82		14.69	13.00	12.43	12.00	2.26	1.00	\$30.75	
3.04	2.00	1.64		13.36	11.00	10.24	10.00	3.12	1.00	\$32.75	
3.35	2.11	1.65		14.67	12.00	12.37	11.00	2.30	1.06	\$32.50	
2.15	1.53	1.03		19.37	-----	13.97	13.00	5.40	-----	\$36.50	
4.80	0.92	0.82		11.66	10.00	10.24	10.00	1.42	-----	\$26.50	
7.67	2.01	1.64		13.39	12.00	12.49	12.00	0.90	-----	\$30.60	
2.99	1.43	-----		12.19	-----	10.63	-----	1.56	-----	\$31.56	

*Deficient.

TABLE IV—GROUND
Lurnishing Nitrogen

Chemist's number.

	Name of Manufacturer and Brand.	Sample Taken From—
1910	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
2124	Fine Ground Bone, -----	
1721	Fine Ground Bone, -----	
1776	Lister's Bone Meal 1916, -----	
1321	Lister's Bone Meal 1916, -----	
1775	Pure Bone Meal, -----	
1572	Pure Bone Meal, -----	
1804	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
	Raw Bone Meal, -----	Great Valley Mills Co., Exton, -----
1723	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
1308	Baugh's Bone Meal, -----	
1617	Baugh's Bone Meal, -----	
1540	Baugh's Pure Steamed Bone, -----	
1703	Baugh's Pure Steamed Bone, -----	
1548	Baugh's Pure Steamed Bone, -----	
1289	Baugh's Raw Bone Meal Warranted Pure, -----	
1379	Baugh's Raw Bone Meal Warranted Pure, -----	
1532	THE COE-MORTIMER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
	Fine Ground Bone, -----	E. W. White, Adelia, -----
1684	JACOB DOLD PACKING COMPANY, BUFFALO, N. Y.	
	Dold's Quality Bone Meal, -----	Chapel Seed Store, Williamsport, -----
1616	JAS. G. DOWNWARD CO., COATESVILLE, PA.	
	Pure Ground Bone, -----	M. S. Bailey, Malvern, -----
2042	GRIFFITH & BOYD CO., BALTIMORE, MD.	
	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.	Jones Eavenson, Christiana, -----
1820	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.	Houck & Cherrington, Catawissa, -----
1609	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal.	Garfield Milhous, Mendenhall, -----
2022	Griffith & Boyd Co.'s Soft Ground Bone Meal.	W. E. Wells, Parker Ford, -----
2081	S. M. HESS & BROTHER, INC., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
	Fine Ground Bone, -----	C. L. Tressler, Conyngham, -----
2002	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.	
	Keystone Pure Ground Bone, -----	Jno. Kunkle, Mahanoy City, -----
2014	G. OBER & SONS COMPANY, BALTIMORE, MD.	
	Ober's Raw Bone Meal, -----	D. E. Wagerseller, Supplee, -----

BONE FERTILIZERS.
and Phosphoric Acid.

Moisture.	CHEMICAL ANALYSIS.				MECHANICAL ANALYSIS.		Selling price per ton at place of selection.	Chemist's number.		
	NITROGEN.		PHOSPHORIC ACID.							
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Coarse.				
2.65	2.54	2.47	27.64	22.88	61	39	45 00	1910		
2.37	2.95	2.47	23.75	22.88	67	33	38 00	2124		
2.72	2.48	2.47	25.51	23.00	71	29	46 00	1721		
3.25	2.41	2.47	27.30	22.88	73	27	40 50	1776		
3.73	3.00	2.47	23.03	23.00	86	14	58 00	1321		
7.00	3.90	3.70	21.81	21.51	64	36	41 50	1775		
5.79	4.23	3.70	22.34	21.51	53	47	50 00	1572		
6.49	4.19	3.70	23.22	21.50	35	65	43 00	1804		
7.10	3.55	3.30	19.64	18.30	69	31	42 00	1723		
6.36	3.61	3.30	19.95	18.30	59	41	44 00	1308		
4.77	1.68	1.65	27.55	25.00	70	30	40 00	1617		
2.52	2.00	1.65	27.81	25.00	69	31	42 00	1540		
4.81	1.88	1.65	27.62	25.00	73	27	36 50	1703		
3.36	2.95	1.65	26.53	25.00	66	34	45 00	1548		
5:26	3.86	3.70	*20.54	21.50	64	36	46 00	1280		
6.93	3.92	3.70	*21.17	21.50	60	40	43 00	1379		
2.78	2.55	2.47	24.43	22.88	66	34	48 00	1532		
3.63	3.61	2.47	24.76	23.00	66	34	55 00	1684		
5.51	3.86	-----	20.59	20.00	45	55	-----	1616		
5.37	3.80	3.25	*17.48	20.00	65	35	40 00	2042		
5:94	3.87	3.25	*18.30	20.00	62	38	41 75	1820		
5:75	3.90	3.25	*17.41	20.00	64	36	42 00	1609		
2.92	2.83	2.47	13.51	11.00	64	36	36 00	2022		
2.80	2.52	2.47	28.94	* 22.88	62	38	40 00	2081		
4.80	3.00	2.46	25.08	23.00	67	33	38 00	2062		
6.37	4.30	3.71	23.83	21.00	46	54	-----	2014		

*Deficient.

TABLE IV—GROUND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1746	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD. Patapsco Fine Ground Bone, -----	E. C. Thomas, Gettysburg, -----
1712	ROBERT A. REICHARD, ALLENSTOWN, PA. Reichard's Steamed Bone, -----	N. D. Hunsicker, Snyders, -----
1367	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Royster's Pure Raw Bone Meal, -----	Harvey Spenceer, Coehranville, -----
1357	THE SCOTT FERTILIZER CO., ELKTON, MD. Raw Bone Meal, -----	Edw. W. Rupert, Oxford, -----
1779	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA. Swift Sure Bone Meal, -----	Yeakel & Huzzard, Norristown, -----
1798	SWIFT & COMPANY, BALTIMORE, MD. Swift's Bone Meal Fertilizer, -----	Wm. C. Ball, Media, -----
1683	Swift's Bone Meal Fertilizer, -----	G. Updegraff & Son, Williamsport, -----
1725	Swift's Bone Meal Fertilizer, -----	R. E. Weeks, Scranton, -----
2101	Swift's 2 $\frac{1}{4}$ —29 Bone Meal Fertilizer, -----	I. M. Osborn, Kennard, -----
2025	JACOB TRINLEY & SONS, LINFIELD, PA. Pure Raw Bone Meal, -----	Mowrey-Latshaw Hardware Co., Spring City.
1771	F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA. Pure Ground Bone, -----	W. B. Passmore, Embreeville, -----
1705	YORK CHEMICAL WORKS, YORK, PA. Pure Ground Bone, -----	E. A. Beck, Lehighton, -----
1376	Pure Ground Bone, -----	Great Valley Mills Co., Paoli, -----
1854	Pure Ground Bone, -----	Wm. Ronig, Douglassville, -----
		Average, -----

BONE FERTILIZERS—Concluded.

Moisture.	CHEMICAL ANALYSIS.					MECHANICAL ANALYSIS.			Chemist's number.
	NITROGEN.		PHOSPHORIC ACID.			Found.		Coarse.	
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Coarse.			
% 3.30	% 2.49	% 2.47	% 28.25	% 22.88	% 69	% 31	\$		1746
3.15	3.09	2.88	26.53	22.00	51	49	33 00		1712
4.68	3.95	3.70	25.07	21.50	67	33	39 00		1367
7.42	3.70	3.70	22.62	21.50	49	51	41 00		1357
3.37	4.40	4.50	25.64	21.00	75	25	55 00		1779
4.89	2.82	2.47	24.21	24.00	68	32	55 00		1798
3.00	2.58	2.47	27.36	24.00	66	34	48 00		1683
3.19	3.07	2.47	25.70	24.00	51	49	48 00		1725
2.35	2.11	1.85	29.28	29.00	78	22	42 00		2101
5.42	4.53		20.29	20-22	43	57	43 00		2025
5.43	2.95	2.46	24.49	23.00	68	32	41 00		1771
3.61	2.85	2.46	25.64	23.00	68	32	39 00		1705
3.90	2.63	2.46	25.36	23.00	61	39	48 50		1376
3.26	2.69	2.46	26.40	23.00	55	45	33 78		1854
4.44	3.16		23.91		63	37	\$43 53		

TABLE V—ACIDULATED
Furnishing

Chemist's number.

	Name of Manufacturer and Brand.	Sample Taken From—
1290	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
1884	14% Acid Phosphate, -----	H. F. Gump & Son, Everett, -----
1291	16% Acid Phosphate, -----	Czar Beerbower, Somerfield, -----
1819	16% Acid Phosphate, -----	H. F. Gump & Son, Everett, -----
2027	Basie Lime Phosphate, -----	McHenry & Masteller, Bloomsburg, -----
1285	Basie Lime Phosphate, -----	Harvey Detwiler, Chester Springs, -----
1946	Basie Lime Phosphate, -----	D. B. Griffith, Wolfsburg, -----
2007	Bowker's 16% Acid Phosphate, -----	Henry Kihner, Ephrata, -----
1919	Josiah Cope's High Grade Superphosphate, -----	Newton Lantz, Atglen, -----
1453	Josiah Cope's High Grade Superphosphate, -----	J. S. Hershberger, Everett, -----
1934	W. S. Farmers' High Grade Superphosphate, -----	Petersburg Grain, Feed & Supply Co., Petersburg.
2190	W. S. Farmers' High Grade Superphosphate, -----	C. L. King, New Enterprise, -----
1425	Lister's Buyer's Choice Acid Phosphate, -----	Jeremiah Thomas, Somerfield, -----
2001	Lister's High Grade Acid Phosphate, -----	B. B. Fox, Lyons Station, -----
1918	Lister's High Grade Acid Phosphate, -----	F. E. Bailey, Northbrook, -----
2136	Lister's High Grade Acid Phosphate, -----	N. H. Hollingshead, Harrisonville, -----
2119	Lister's High Grade Acid Phosphate, -----	N. J. Norton, New Albany, -----
1455	Lister's Lime Phosphate, -----	Howard Webber, Hellertown, -----
1524	Ludlam's Ceerops High Grade Dissolved Phosphate, -----	Petersburg Grain, Feed & Supply Co., Petersburg.
1283	Ludlam's Ceerops High Grade Dissolved Phosphate, -----	Curtis Bushey, Clear Spring, -----
1404	Nassua High Grade Superphosphate, -----	D. B. Griffith, Wolfsburg, -----
2162	Patapseo High Grade Acid Phosphate, -----	H. S. Lesher, Bernville, -----
1932	Pollock's High Grade Superphosphate, -----	Newhard & Rohn, Easton, -----
1850	J. E. Tygert's 10% Acid Phosphate, -----	J. L. Longenecker, Woodbury, -----
1741	J. E. Tygert's 16% Acid Phosphate, -----	David F. Climer, Clayton, -----
1422	Wheeler's High Grade Acid Phosphate, -----	C. Travis, East Stroudsburg, -----
1311	Wheeler's Peerless Acid Phosphate, -----	H. K. & D. M. Nell, Fleetwood, -----
1435	Woolridge's Florida Acid Phosphate, -----	W. H. Robacken, South Sterling, -----
1451	Woolridge's High Grade Acid Phosphate, -----	Clarence Stump, Grinnville, -----
1935	Woolridge's High Grade Acid Phosphate, -----	W. S. Baker, Alexandria, -----
1436	Woolridge's High Grade Acid Phosphate, -----	Cyrus Brumbaugh, New Enterprise, -----
1913	Woolridge's Lime Phosphate, -----	Clarence Stump, Grinnville, -----
1936	Woolridge's Lime Phosphate, -----	Geo. S. Briner, Carlisle, -----
1759	Woolridge's Lime Phosphate, -----	John A. Crilly, Imler, -----
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	Strite & Eshleman, Greencastle, -----
1886	Armour's Big Crop Acid Phosphate, 16%, -----	Geo. L. Moore, Brownsville, -----
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
1382	Baugh's 16% Acid Phosphate, -----	Bunting Brothers, Oxford, -----
1834	Baugh's 16% Acid Phosphate, -----	A. W. Eves, Millville, -----
1449	Baugh's 16% Acid Phosphate, -----	W. S. Henderson, Alexandria, -----
1662	Baugh's 16% Acid Phosphate, -----	King Brothers, Uniontown, -----
1294	Baugh's Lime and Phosphate, -----	E. H. Hartle, Osterburg, -----
	BOWKER FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
1543	Bowker's 16% Acid Phosphate, -----	George Chichura, Olyphant, -----
1893	Bowker's 16% Acid Phosphate, -----	A. C. McClure, Burgettstown, -----
2182	Bowker's 16% Acid Phosphate, -----	W. D. Smith, Jefferson, -----

PHOSPHATE FERTILIZERS,
Phosphoric Acid.

Moisture.	PHOSPHORIC ACID.								Chemist's number.	
	Total.		Available.		Insoluble.		Selling price per ton at place of selection.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.				
1.40	15.31	15.00	14.45	14.00	0.86	1.00	21 00	1200		
1.45	18.11	17.00	17.11	16.00	1.00	1.00	22 00	1884		
1.24	17.60	17.00	17.00	16.00	0.60	1.00	22 50	1291		
6.85	17.35	17.00	16.03	16.00	1.32	1.00	22 00	1819		
1.22	14.55	14.00	13.47	13.00	1.08	1.00	22 00	2027		
1.13	14.90	14.00	13.48	13.00	1.42	1.00	19 50	1285		
1.77	15.01	14.00	13.05	13.00	1.96	1.00	21 75	1946		
0.97	17.93	17.00	17.21	16.00	0.72	1.00	21 00	2007		
1.07	17.64	17.00	17.12	16.00	0.52	1.00	22 50	1919		
1.86	18.70	17.00	17.56	16.00	1.14	1.00	22 25	1453		
1.12	17.86	17.00	17.48	16.00	0.38	1.00	21 25	1934		
2.97	17.17	17.00	16.27	16.00	0.90	1.00	26 00	2190		
3.15	16.65	15.00	16.21	14.00	0.44	1.00	17 69	1425		
1.15	17.96	17.00	17.66	16.00	0.30	1.00	20 00	2001		
1.12	17.17	17.00	16.79	16.00	0.38	1.00	24 25	1918		
1.72	16.90	17.00	16.70	16.00	0.20	1.00	25 00	2196		
1.35	17.04	17.00	16.66	16.00	0.38	1.00	20 00	2119		
2.00	15.76	14.00	13.56	13.00	2.20	1.00	22 25	1455		
1.82	18.47	17.00	17.23	16.00	1.24	1.00	19 97	1524		
1.32	18.19	17.00	17.61	16.00	0.58	1.00	21 00	1283		
1.41	18.11	17.00	16.99	16.00	1.12	1.00	20 25	1404		
1.80	18.02	17.00	16.50	16.00	1.52	1.00	19 65	2162		
1.40	17.70	17.00	17.24	16.00	0.46	1.00	-----	1932		
1.42	17.95	17.00	17.43	16.00	0.52	1.00	-----	1850		
2.19	17.73	17.00	16.73	16.00	1.00	1.00	22 00	1741		
1.74	17.76	17.00	17.40	16.00	0.36	1.00	-----	1422		
3.20	15.99	15.00	15.03	14.00	0.96	1.00	32 00	1311		
2.13	15.60	15.00	14.96	14.00	0.64	1.00	19 00	1425		
3.24	18.28	17.00	17.22	16.00	1.06	1.00	22 50	1451		
1.25	17.41	17.00	16.91	16.00	0.50	1.00	21 50	1925		
1.36	17.98	17.00	17.70	16.00	0.28	1.00	20 75	1436		
1.52	15.63	14.00	12.55	13.00	2.08	1.00	-----	1913		
1.57	15.06	14.00	13.42	13.00	1.64	1.00	21 50	1926		
1.43	15.64	14.00	13.42	13.00	2.22	1.00	21 50	1759		
1.80	17.59	16.50	17.33	16.00	0.26	0.50	25 00	1886		
2.63	17.97	-----	17.05	16.00	0.99	-----	20 00	1282		
1.64	17.54	16.00	17.26	16.00	0.18	-----	20 60	1824		
2.53	17.54	16.00	17.36	16.00	0.18	-----	22 25	1449		
1.52	17.92	16.00	17.06	16.00	0.26	-----	25 00	1669		
1.40	14.91	13.00	13.67	13.00	1.24	-----	22 25	1294		
2.91	18.37	17.00	17.37	16.00	1.00	1.00	27 00	1519		
1.92	18.23	17.00	17.25	16.00	0.98	1.00	25 00	1803		
1.00	18.06	17.00	16.80	16.00	1.26	1.00	23 00	2182		

*Deficient.

TABLE V--ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1897	THE CENTRAL CHEMICAL CO., HAGERSTOWN, MD. Gro-All 16% Dissolved Phosphate, -----	Burgettstown Feed & Supply Co., Burgettstown.
1622	Gro-All 16% Dissolved Phosphate, -----	S. K. Chambers & Brother, Elkview, --
1483	Gro-All 16% Dissolved Phosphate, -----	M. S. Haskell, Knoxville, -----
1338	Gro-All 16% Dissolved Phosphate, -----	J. B. Messersmith, Mooresburg, -----
1490	THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y. E. Frank Coe's Basic Fruit and Legume Phosphate,	E. M. Day, Brookside, -----
1438	E. Frank Coe's Basic Fruit and Legume Phosphate,	Wilson Merkel, Klinesville, -----
1474	E. Frank Coe's 16% Superphosphate, -----	R. P. Heilman, Emporium, -----
2183	E. Frank Coe's 16% Superphosphate, -----	L. T. Laidley, Carmichaels, -----
2209	COLUMBIA GUANO CO., ALLIED WITH F. S. ROYSTER GUANO CO., BALTIMORE, MD. Columbia 16% Acid Phosphate, -----	J. E. Merideth, Towanda, -----
2138	DUMONT FERTILIZER CO., PHILADEL- PHIA, PA. Dumont's 16% Acid Phosphate, -----	E. J. Houck, Bangor, -----
1967	THE EGGERT CHEMICAL CO., CON- TON, OHIO. Eggert's Acid Phosphate 16%, -----	E. H. Hays, Clintondale, -----
1866	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN PA. Acid Phosphate 14%, -----	J. H. Heterich, Palmyra, -----
1335	Acid Phosphate 16%, -----	Farmers Co-operative Association, Lewis- town.
1411	GRIFFITH & BOYD CO., BALTIMORE, MD. Griffith & Boyd Co's High Grade 16% Acid Phosphate.	Morris C. Bohn, Bernville, -----
1443	Griffith & Boyd Co's High Grade 16% Acid Phosphate.	C. A. Geist, Tyrone, -----
1607	Griffith & Boyd Co's High Grade 16% Acid Phosphate.	J. F. Hogsett & Sons, Uniontown, ---
1608	Griffith & Boyd Co's High Grade 16% Acid Phosphate.	Garfield Milhous, Mendenhall. -----
1499	S. M. HESS & BROTHER, INC., SUBSI- DIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL CO., NEW YORK, N. Y. High Grade Acid Phosphate, -----	H. D. Wiest, Bernville. -----
1507	Processed Phospho Lime, -----	Edward Fittery, Lebanon, -----
1787	Processed Phospho Lime, -----	J. M. Hitebeital, Green Lane, -----
1515	Processed Phospho Lime, -----	Daniel Kimmel, Hegins, -----
2198	Special High Grade Acid Phosphate, -----	H. G. Wright, Canton, -----
2165	THE HUBBARD FERTILIZER CO., BALTIMORE, MD. Hubbard's 16% Phosphate, -----	H. B. Low & Son, Orangeville, -----
1813	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA. Keystone 16% Acid Phosphate, -----	E. A. Slagle, Paxinos, -----

PHOSPHATE FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.								Chemist's number.	
	Total.			Available.		Insoluble.		Selling price per ton at place of selection.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.			
1.00	18.00	16.50	17.32	16.00	0.68	0.50	23 00	1897		
1.29	17.82	16.50	17.32	16.00	0.50	0.50	20 00	1622		
2.01	18.48	17.00	17.86	16.00	0.62	1.00	24 00	1483		
2.47	16.98	17.00	16.56	16.00	0.42	1.00	23 50	1338		
1.88	15.48	14.00	13.44	13.00	2.04	1.00	23 50	1490		
1.54	15.93	14.00	14.91	13.00	1.02	1.00	19 25	1428		
1.38	17.73	17.00	17.39	16.00	0.34	1.00	26 60	1474		
1.02	17.87	17.00	16.37	16.00	1.50	1.00	23 00	2183		
2.67	17.12	16.50	16.98	16.00	0.14	0.50	24 00	2209		
3.10	17.97	17.00	17.85	16.00	0.12	1.00	21 50	2138		
1.47	18.24	17.00	17.38	16.00	0.86	1.00	18 65	1967		
2.08	15.68	15.00	15.57	14.00	0.11	1.00	20 00	1866		
9.06	17.45	17.00	17.41	16.00	0.04	1.00	35 20	1335		
1.23	17.78	17.00	16.60	16.00	1.18	1.00	20 00	1411		
3.49	18.42	17.00	17.12	16.00	1.30	1.00	20 75	1443		
1.64	18.39	17.00	17.79	16.00	0.60	1.00	25 00	1667		
1.55	17.83	17.00	17.13	16.00	0.70	1.00	21 00	1608		
1.47	16.24	15.00	15.48	14.00	0.76	1.00	24 00	1409		
2.28	14.31	14.00	13.99	13.00	0.92	1.00	24 00	1390		
1.25	15.24	14.00	13.92	13.00	1.32	1.00	24 00	1787		
1.50	14.76	14.00	13.92	13.00	1.44	1.00	32 00	1595		
2.12	17.46	17.00	16.12	16.00	1.34	1.00	20 00	2198		
1.00	17.42	17.00	16.84	16.00	0.58	1.00	21 00	2165		
1.78	17.51	17.00	17.31	16.00	0.20	1.00	23 00	1813		

TABLE V--ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From--
	THE KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA.	
1313	Granger's Acid Phosphate, -----	G. B. Correll, Newfoundland, -----
1588	Granger's Acid Phosphate, -----	C. E. Gautzbine, Tannersville, -----
1966	Granger's Acid Phosphate, -----	M. G. Gingrich, Lebanon, -----
	LANCASTER BONE FERTILIZER COMPANY, LANCASTER, PA.	
1556	Grange Special, -----	C. F. Fendrich, Mercersburg, -----
	LANCASTER CHEMICAL COMPANY, LANCASTER, PA.	
1943	No. 16 Phosphoric Acid Special, -----	C. S. Zimmerman, Bismark, -----
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
1858	Levan's Super-Phosphate, -----	J. M. Groh, Lickdale, -----
1902	Levan's Super-Phosphate, -----	Moses K. Horst, Scotland, -----
1494	Levan's Super-Phosphate, -----	Solomon & Waltz, Antes Fort, -----
	FRED E. LORD, ESPY, PA.	
2173	Acid Phosphate, -----	Fred E. Lord, Espy, -----
	THE MARTIN FERTILIZER CO., PHILADELPHIA, PA.	
1369	Bull Head Brand Acid Phosphate, -----	Harvey G. Shortlidge, Kelton, -----
	THE MILLER FERTILIZER COMPANY, BALTIMORE, MD.	
1352	Acid Phosphate 16%, -----	Hartley & Blaine, Turbotville, -----
1685	Acid Phosphate 16%, -----	Herman Keebler, Montoursville, -----
1962	Acid Phosphate 16%, -----	State Insane Asylum, Wernersville, -----
	NITRATE AGENCIES COMPANY, NEW YORK, N. Y.	
1327	High Grade Acid Phosphate, -----	G. A. Spencer, Waverly, -----
	GOBER & SONS COMPANY, BALTIMORE, MD.	
1744	Ober's High Grade Acid Phosphate, -----	D. Blocher & Co., Gettysburg, -----
1682	Ober's High Grade Acid Phosphate, -----	G. H. DeTrain, Colversville, -----
2107	Ober's High Grade Acid Phosphate, -----	J. Geo. McCanlis, Edensburg, -----
2017	Ober's Lime Phosphate, -----	D. E. Wagenseller, Supplee, -----
	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD.	
1890	Patapsco High Grade Acid Phosphate, -----	Denny & Allison, Hickory, -----
1310	Patapsco High Grade Acid Phosphate, -----	Fred D. Mick, Cresco, -----
	PATUXENT GUANO COMPANY, BALTIMORE, MD.	
1344	Patuxent High Grade Acid Phosphate, -----	H. J. Linder, Potts Grove, -----
1757	Patuxent High Grade Acid Phosphate, -----	A. J. Snyder, Greencastle, -----
1342	Patuxent Lime Phosphate, -----	H. J. Linder, Potts Grove, -----
1343	Patuxent Pure Dissolved South Carolina Phosphate, -----	H. J. Linder, Potts Grove, -----
	PIEDMONT MT. AIRY GUANO CO., BAL- TIMORE MD.	
1973	Piedmont 16% Acid Phosphate, -----	Keystone Tractor & Implement Co., Palmyra.
	RASIN-MONUMENTAL CO., SUBSIDIARY OF THE VIRGINIA-CAROLINA CHEM- ICAL CO., BALTIMORE MD.	
1634	Rasin's 16% Acid Phosphate, -----	Albright & Schroyer, Kempton, -----

PHOSPHATE FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.								Chemist's number.	
	Total.		Available.		Insoluble.		Selling price per ton at place of selection.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.				
1.35	18.34	16.00	16.88	16.00	1.46	-----	\$ 25.00	1313		
4.24	17.99	16.00	17.85	16.00	0.14	-----	20.00	1538		
0.95	18.04	16.00	17.10	16.00	0.94	-----	19.32	1900		
1.99	16.97	17.00	16.85	16.00	0.12	1.00	19.75	1556		
2.30	17.45	-----	17.07	16.00	0.38	1.00	19.75	1943		
1.69	16.85	17.00	16.69	16.00	0.16	1.00	24.00	1858		
3.02	17.92	17.00	17.80	16.00	0.12	1.00	18.70	1902		
4.20	17.86	17.00	17.82	16.00	0.04	1.00	20.50	1494		
1.25	18.16	16.50	17.08	16.00	1.08	0.50	19.00	2173		
2.75	18.34	-----	17.34	16.00	1.00	-----	20.00	1369		
2.28	18.59	-----	17.49	16.00	1.10	0.50	21.38	1352		
1.36	18.05	-----	16.99	16.00	1.06	0.50	23.00	1685		
1.27	17.92	-----	16.64	16.00	1.28	0.50	-----	1962		
3.60	17.60	17.00	17.46	16.00	0.14	1.00	24.00	1327		
6.44	17.13	17.00	17.05	16.00	0.08	1.00	22.00	1744		
4.77	17.73	17.00	17.49	16.00	0.24	1.00	21.50	1682		
3.15	18.14	17.00	18.06	16.00	0.08	1.00	20.00	2107		
1.85	15.43	14.00	14.29	13.00	1.14	1.00	-----	2017		
1.02	17.46	17.00	17.02	16.00	0.44	1.00	26.00	1890		
2.94	18.26	17.00	17.08	16.00	1.28	1.00	28.00	1310		
8.18	16.71	16.50	16.37	16.00	0.34	0.50	20.58	1344		
5.22	18.69	17.00	18.63	16.00	0.06	1.00	19.50	1757		
5.10	14.16	14.00	13.01	13.00	1.15	1.00	20.58	1342		
1.86	16.50	-----	16.34	14.00	0.16	1.00	19.08	1343		
4.52	17.99	-----	16.69	16.00	1.30	-----	21.00	1973		
1.15	19.20	17.00	17.64	16.00	1.56	1.00	20.00	1634		

TABLE V—ACIDULATED

Chemist's number.

	Name of Manufacturer and Brand.	Sample Taken From—
1363	Rasin's 16% Acid Phosphate, -----	E. H. Keen & Son, Parkesburg, -----
1649	Rasin's Phospho Tobacco, -----	S. H. Donkel, Myerstown, -----
2168	Rasin's Phospho Tobacco, -----	H. B. Low & Son, Orangeville, -----
	READING BONE FERTILIZER CO., READING, PA.	
2068	16% Clear Acid Phosphate, -----	John M. Good, Pine Grove, -----
1727	16% Clear Acid Phosphate, -----	A. F. Hobbs, LaPlume, -----
1269	16% Clear Acid Phosphate, -----	Isaee H. Lesher, Bernville, -----
1337	16% Clear Acid Phosphate, -----	W. M. Simington, Potts Grove, -----
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.	
1885	Royster's 14% Acid Phosphate, -----	C. B. Chamberlain, Brownville, -----
1554	Royster's 14% Acid Phosphate, -----	Huston Brothers, Three Springs, -----
1319	Royster's 16% Acid Phosphate, -----	W. Headly, Waymarth, -----
2025	Royster's 16% Acid Phosphate, -----	W. H. Humphry, Portersville, -----
1555	Royster's 16% Acid Phosphate, -----	Huston Brothers, Three Springs, -----
1826	Royster's 16% Acid Phosphate, -----	J. M. Rider, Millville, -----
	THE SCOTT FERTILIZER CO., ELK- TON, MD.	
1361	Scott's Tip Top Soluble Phosphate, -----	Edw. W. Rupert, Oxford, -----
	SWIFT & COMPANY, BALTIMORE, MD.	
2199	Swift's High Grade Acid Phosphate Fer- tilizer.	T. Bender & Son, Muncy Valley, -----
1500	Swift's High Grade Acid Phosphate Fer- tilizer.	D. L. Hertzler, Mechanicsburg, -----
2099	Swift's High Grade Acid Phosphate Fer- tilizer.	I. M. Osborn, Kennard, -----
1373	Swift's High Grade Acid Phosphate Fer- tilizer.	Pomona No. 3 Grange Exchange, West Chester.
	I. P. THOMAS & SON CO., PHILADEL- PHIA, PA.	
1848	16% Acid Phosphate, -----	C. S. Davidheiser, Gilbertsville, -----
2189	16% Acid Phosphate, -----	A. M. Frederick, Fairchance, -----
1661	16% Acid Phosphate, -----	King Brothers, Uniontown, -----
1554	16% Acid Phosphate, -----	F. E. Martz, Washingtonville, -----
	UNITED STATES GUANO COMPANY, BALTIMORE, MD.	
1869	Standard United States Extra High Grade 16% Acid Phosphate.	M. M. Cassel, Manheim, -----
1293	Standard United States Extra High Grade 16% Acid Phosphate.	Scinellsburg Grange, Scinellsburg, -----
	VIRGINIA-CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD.	
1281	V. C. 14% Acid Phosphate, -----	Lawrence Schaffer, Tulpehocken, -----
1304	V. C. 16% Acid Phosphate, -----	Blair Knisely, Reynolds Dale, -----
1278	V. C. 16% Acid Phosphate, -----	Lawrence Schaffer, Tulpesocken, -----
	WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA.	
2631	Wacco Acid Phosphate, -----	Quarryville Farmers Association, Quarry- ville.
1909	Wacco Superphosphate, -----	Quarryville Farmers Association, Quarry- ville.

PHOSPHATE FERTILIZERS—Continued.

Moisture,	PHOSPHORIC ACID.							Chemist's number.	
	Total.		Available.		Insoluble.		Selling price per ton at place of selection.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.			
1.00	19.20	17.00	17.52	16.00	1.68	1.00	20 00	1363	
2.72	16.26	14.00	14.42	13.00	1.84	1.00	16 00	1649	
2.22	17.17	14.00	15.17	13.00	2.00	1.00	21 60	2168	
1.17	18.00	17.00	17.28	16.00	0.72	1.00	21 50	2088	
1.62	19.26	17.00	18.36	16.00	0.90	1.00	30 00	1727	
2.19	18.42	17.00	17.72	16.00	0.70	1.00	19 75	1269	
8.84	16.97	17.00	15.89	16.00	1.08	1.00	18 37	1337	
1.40	16.23	14.50	14.89	14.00	1.34	0.50	27 00	1885	
1.70	15.37	14.50	14.07	14.00	1.30	0.50	23 25	1554	
3.48	18.09	16.50	17.19	16.00	0.90	0.50	26 00	1319	
1.75	17.91	16.50	17.63	16.00	0.28	0.50	21 50	2095	
3.26	17.99	16.50	17.81	16.00	0.18	0.50	24 50	1555	
1.74	17.86	16.50	17.60	16.00	0.26	0.50	20 85	1826	
1.71	18.50	-----	17.08	16.00	1.42	-----	20 00	1361	
1.65	18.74	16.00	17.86	16.00	0.88	-----	25 00	2199	
1.87	17.75	16.00	16.31	16.00	1.44	-----	20 00	1508	
1.80	17.41	-----	17.27	16.00	0.14	-----	22 50	2069	
1.92	18.44	-----	17.06	16.00	1.38	-----	19 00	1373	
3.16	17.92	16.50	17.72	16.00	0.20	0.50	20 00	1848	
5.75	17.50	16.50	17.34	16.00	0.16	0.50	22 00	2180	
3.59	17.48	16.50	17.36	16.00	0.12	0.50	25 00	1661	
2.73	18.37	16.50	18.11	16.00	0.26	0.50	20 50	1354	
5.60	18.88	16.50	18.75	16.00	0.13	0.50	-----	1869	
1.13	18.24	16.50	18.00	16.00	0.24	0.50	17 00	1293	
1.00	16.71	15.00	15.15	14.00	1.56	1.00	19 25	1281	
0.99	19.20	17.00	17.58	16.00	1.62	1.00	22 00	1304	
1.13	19.39	17.00	17.75	16.00	1.64	1.00	21 60	1278	
1.35	14.81	-----	14.67	14.00	0.14	-----	18 50	2031	
2.37	16.55	-----	16.39	16.00	0.16	-----	20 00	1909	

TABLE V—ACIDULATED

Chemist No.	Name of Manufacturer and Brand.	Sample Taken From—
2181	YORK CHEMICAL WORKS, YORK, PA. 16% Acid Psosphate, -----	O. A. Acklin, Waynesburg, -----
1445	10% Acid Phosphate, -----	Farmers Co-operative Association, State
1322	16% Acid Phosphate, -----	College.
1651	10% Acid Phosphate, -----	Huill Brothers, Waymarth, -----
1610	16% Acid Phosphate, -----	Kimmershings Grange, Lebanon, -----
		Harry Pyle & Son, Chadds Ford Junc-
		tion.
		Average, -----

PHOSPHATE FERTILIZERS--Concluded.

Moisture.	PHOSPHORIC ACID.								Chemist's number.					
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Selling price per ton at place of selection.	
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.								
1.50	17.17	16.00	16.87	16.00	0.30	-----	-----	-----	-----	-----	-----	-----	24 00	2181
2.77	16.82	16.00	16.70	16.00	0.12	-----	-----	-----	-----	-----	-----	-----	18 50	1445
4.37	18.00	16.00	17.82	16.00	0.18	-----	-----	-----	-----	-----	-----	-----	25 00	1322
3.35	17.26	16.00	17.18	16.00	0.08	-----	-----	-----	-----	-----	-----	-----	18 97	1651
1.92	18.43	16.00	18.27	16.00	0.16	-----	-----	-----	-----	-----	-----	-----	22 00	1610
2.29	17.38	-----	16.60	-----	0.78	-----	-----	-----	-----	-----	-----	-----	\$22 07	-----

TABLE VI.—ROCK AND
Furnishing Phosphoric

Chemist's number.

	Name of Manufacturer and Brand.	Sample Taken From—
1988	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
2059	Big Crop Phosphate, -----	John Greenleaf, Quarryville, -----
1593	Bowker's Great Crop. -----	Alvin Fritz, Mahanoy City, -----
1663	Bowker's Super Phosphate with Potash, -----	Geo. Maurer, Pitman, -----
2040	Bradley's Phosphate and Potash, -----	King Brothers, Uniontown, -----
	Josiah Cope's Soluble Phosphate and Potash, -----	Jones Eavenson, Christiana, -----
2038	Josiah Cope's Universal Mixture, -----	Jones Eavenson, Christiana, -----
1961	Dissolved Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
1292	Genl Alkaline Phosphate, -----	H. F. Gump & Son, Everett, -----
2163	Great Crop Grower, -----	Newhard & Rohn, Easton, -----
1546	Lister's Grain and Grass Fertilizer Revised, -----	W. McLain, Moscow, -----
2118	Lister's Potash Mixture, -----	Howard Webber, Hellertown, -----
1511	Ludlam's Cereops I. X. L. Brand, -----	Louis Bentz, Wellsville, -----
1284	Ludlam's Cereops Phosphate and Potash, -----	D. B. Griffith, Wolfsburg, -----
1534	Nassau Grass and Grain Fertilizer, -----	A. A. Chamberlain, Gouldsboro, -----
1942	Nassau Royal Mixture, -----	J. L. Graybill, Manheim, -----
2003	Star Phosphate, -----	W. H. Kuhn, Carns City, -----
1987	Three Star Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
1993	Victory Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
1421	Wheeler's Wheat and Clover Fertilizer, -----	H. K. & D. M. Nell Fleetwood, -----
1450	Wooldridge's American Potash Mixture, -----	W. S. Baker, Alexandria, -----
1758	Wooldridge's Grain and Grass Producer, -----	Strite & Eshleman, Greencastle, -----
1517	Wooldridge's Grain and Grass Producer, -----	Robert Wentz, Wellsville, -----
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
1345	Armour's Big Crop Fertilizer 0-10-5, -----	Willis Koch, Potts Grove, -----
1495	Armour's Phosphate and Potash No. 1, -----	W. N. Brosha, Antes Fort, -----
1887	Armour's Phosphate and Potash No. 1, -----	Geo. L. Moore, Brownsville, -----
1933	Armour's Phosphate and Potash No. 1, -----	Levi Stuckey, New Enterprise, -----
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
1420	Baugh's Phosphate and Potash Mixture, (10-4), -----	Clarence Shellenberger, Fleetwood, -----
1835	Baugh's Phosphate and Potash Mixture, (12-5), -----	A. W. Eves, Millville, -----
1762	Baugh's Phosphate and Potash Mixture, (12-5), -----	C. F. Fendrich, Mereersburg, -----
2185	Baugh's Soluble Alkaline Super-Phosphate, -----	J. G. Cover, Masontown, -----
2073	Baugh's Soluble Alkaline Super-Phosphate, -----	Thomas Garrison, Berwick, -----
1660	Baugh's Soluble Alkaline Super-Phosphate, -----	King Brothers, Uniontown, -----
	BOWKER FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
1468	Bowker's Phosphate and Potash, -----	Emporium Supply Co., Emporium, -----
1307	Bowker's Superphosphate with Potash, -----	E. Cobley & Sons, Moscow, -----
	THE CENTRAL CHEMICAL CO., HAGERSTOWN, MD.	
1756	Gro-All Commonwealth, -----	J. W. Hartman, Greencastle, -----
1803	Gro-All Pennsylvania Special, -----	N. G. Adams, Paxinos, -----
1158	Gro-All Pioneer, -----	Frank Oburn, McAlvys Fort, -----
1288	Gro-All Potash Special, -----	Francis Baker, Everett, -----
	THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL COMPANY, NEW YORK, N. Y.	
2141	E. Frank Coe's Big 15 Mixture, -----	H. D. Minnich, Emaus, -----
1492	E. Frank Coe's Famous Prize Brand, -----	E. M. Day, Brookside, -----

POTASH FERTILIZERS.

Acid and Potash

Moisture.	PHOSPHORIC ACID.						POTASH.						Chemist's number.	
	Total.		Available.		Insoluble.		Found.		Guaranteed.		Present as Muriate.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
2.57	8.95	9.00	8.29	8.00	0.66	1.00	5.24	5.60	5.24	-----	30 00	1988		
0.85	9.02	9.00	8.38	8.00	0.64	1.00	5.20	5.00	5.20	-----	33 00	2059		
3.92	11.54	11.00	10.90	10.00	0.64	1.00	2.40	2.00	2.40	-----	27 60	1593		
3.70	12.40	11.60	11.32	10.00	1.18	1.00	2.36	2.00	2.36	-----	32 00	1663		
1.92	11.56	11.00	10.52	10.00	1.04	1.00	2.38	2.00	2.38	-----	27 00	20 0		
1.18	9.27	9.00	8.31	8.00	0.96	1.00	5.34	5.00	5.34	-----	30 00	2038		
2.70	11.16	11.00	10.52	10.00	0.64	1.00	2.40	2.00	2.40	-----	26 50	1991		
1.10	7.37	7.00	6.63	6.00	0.74	1.00	3.20	3.00	3.20	-----	29 00	1292		
2.90	10.42	9.00	9.06	8.00	1.36	1.00	4.62	5.00	4.62	-----	27 00	2163		
7.27	11.44	11.00	11.04	10.00	0.40	1.00	2.08	2.00	2.08	-----	30 00	1546		
1.52	10.18	9.00	8.92	8.00	1.26	1.00	5.00	5.00	5.00	-----	28 35	2118		
1.69	9.63	9.00	8.93	8.00	0.70	1.00	5.60	5.00	5.60	-----	31 00	1511		
3.37	11.99	11.00	10.91	10.00	1.08	1.00	2.15	2.00	2.15	-----	26 00	1284		
4.87	11.52	11.00	10.64	10.00	0.88	1.00	2.31	2.00	2.31	-----	38 50	1534		
2.45	9.31	9.00	8.59	8.00	0.72	1.00	5.00	5.00	5.00	-----	1942			
1.80	9.76	9.00	8.82	8.00	0.94	1.00	3.13	3.00	3.13	-----	31 00	2093		
2.45	11.60	11.00	10.76	10.00	0.84	1.00	4.26	4.00	4.26	-----	29 00	1987		
4.95	13.09	13.00	12.03	12.00	1.06	1.00	5.09	5.00	5.09	-----	31 00	1993		
4.65	11.45	11.00	10.81	10.00	0.64	1.00	2.26	2.00	2.26	-----	-----	1421		
5.59	11.86	11.00	11.12	10.00	0.74	1.00	2.64	2.00	2.64	-----	-----	1450		
3.39	11.23	11.00	10.69	10.00	0.54	1.00	4.02	4.00	4.02	-----	29 75	1758		
2.80	11.23	11.00	10.65	10.00	0.58	1.00	4.72	4.00	4.72	-----	-----	1517		
8.02	10.88	10.50	10.26	10.00	0.62	0.50	4.93	5.00	4.93	-----	31 25	1345		
4.33	11.32	10.70	10.64	10.00	0.68	0.50	2.11	2.00	2.11	-----	30 00	1495		
3.12	11.21	10.50	11.01	10.00	0.20	0.50	2.31	2.00	2.31	-----	33 00	1887		
0.97	11.01	10.50	10.73	10.00	0.28	0.50	2.37	2.00	2.37	-----	22 00	1933		
5.09	10.84	10.00	10.12	10.00	0.72	-----	4.19	4.00	4.19	-----	26 31	1420		
3.23	13.00	12.00	12.18	12.00	0.82	-----	5.55	5.00	5.55	-----	32 60	1835		
6.40	12.31	12.00	11.41	12.00	0.90	-----	5.59	5.00	5.59	-----	31 00	1762		
1.25	10.82	10.00	9.92	10.00	0.90	-----	2.59	2.00	2.59	-----	33 00	2185		
1.82	11.47	10.00	10.51	10.00	0.96	-----	2.54	2.00	2.54	-----	27 50	2073		
2.75	10.72	10.00	9.92	10.00	0.80	-----	2.36	2.00	2.36	-----	35 00	1660		
1.42	10.16	9.00	8.94	8.00	1.22	1.00	3.25	3.00	3.25	-----	37 00	1468		
5.28	11.99	11.00	10.89	10.00	1.10	1.00	2.11	2.00	2.11	-----	33 25	1307		
4.70	10.01	10.50	*9.52	10.00	0.48	0.50	2.28	2.00	2.28	-----	27 00	1756		
3.22	11.80	10.50	10.84	10.00	0.96	0.50	4.66	4.00	4.66	-----	31 00	1806		
4.99	9.03	8.50	8.73	8.00	0.10	0.50	5.12	5.00	5.12	-----	29 60	1458		
4.34	13.60	12.50	13.18	12.00	0.42	0.50	5.88	5.00	5.88	-----	34 00	1288		
3.02	13.56	13.00	12.72	12.00	0.84	1.00	2.89	3.00	2.89	-----	30 00	2141		
3.62	11.16	11.00	10.60	10.00	0.56	1.00	2.14	2.00	2.14	-----	29 50	1492		

*Deficient.

TABLE VI.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1689	THE CONSUMERS CHEMICAL CORPORATION, AFFILIATED WITH VIRGINIA-CAROLINA CHEMICAL COMPANY, NEW YORK, N. Y. Alkaline Phosphate, -----	McConnell Brothers, Hughesville, -----
1334	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA. Farmers Economy, -----	Farmers Co-operative Association, Lewistown.
1417 1926 1415 1484	GRIFFITH & BOYD CO., BALTIMORE, MD. Griffith & Boyd Co.'s Special Grain Grower, Griffith & Boyd Co.'s Special Grain Grower, Griffith & Boyd Co.'s XX Potash Manure, Griffith & Boyd Co.'s XX Potash Manure,	Samuel B. Fox, Fleetwood, ----- G. R. Lutz, Lutzville, ----- Morris C. Bohn, Bernville, ----- Farmers Cooperative Union, Nelson, -----
1927 2030	S. M. HESS & BROTHER, INC., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y. Soluble Phosphate and Potash, ----- Standard Alkaline, -----	F. R. Reighard, Bedford, ----- C. L. Tressler, Conyngham, -----
2034 2164 2035 1571	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD. Hubbard's High Grade Potash Mixture, ----- Hubbard's High Grade Potash Mixture, ----- Hubbard's Phosphate and Potash, ----- Hubbard's Phosphate and Potash, -----	E. B. Fritz & Son, Quarryville, ----- H. B. Low & Son, Orangeville, ----- E. B. Fritz & Son, Quarryville, ----- Shippensburg Warehouse Co., Shippensburg.
1731 1736	THE KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA. Granger's Special, ----- Granger's Special, ----- Granger's Superior, -----	M. G. Gingrich, Lebanon, ----- Pocono Grange, Tannersville, ----- Pocono Grange, Tannersville, -----
2036	LANCASTER BONE FERTILIZER COMPANY, LANCASTER, PA. Harvest King, -----	E. B. Fritz & Son, Quarryville, -----
1900 1406 1638	LEBANON FERTILIZER WORKS, LEBANON, PA. Levan's Standard Potash Compound 0-12-4, Levan's Standard Potash Compound 0-12-4, Levan's Standard Potash Compound 0-12-4,	Moses K. Horst, Scotland, ----- C. J. Pottelger, Bernville, ----- A. D. Trexler Sons, Trexler, -----
2171	FRED E. LORD, ESPY, PA. Columbia Fall Special, -----	Fred E. Lord, Espy, -----
1686 1632 1350	THE MILLER FERTILIZER COMPANY, BALTIMORE, MD. Miller's 4% Alkaline, ----- Miller's Clinch Phosphate, ----- Miller's Clinch Phosphate, -----	Herman Keebler, Montoursville, ----- Albright & Schwoyer, Kempton, ----- Hartley & Blaine, Turbotville, -----
1695 1742	G. OBER & SONS COMPANY, BALTIMORE, MD. Ober's 10% Super Phosphate and Potash, Ober's 10% Super Phosphate and Potash,	Glossner Implement Co., Lock Haven, ----- J. S. Stevenson, Waynesboro, -----
1447	PATAPSICO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD. Patapsco Alkaline Mixture, -----	F. P. Waite, Tyrone, -----

POTASH FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						POTASH.						Chemist's number.	
	Total.		Available.		Insoluble.		Found.		Guaranteed.		Present as muriate			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Present as sulphate.	Selling price per ton at place of selection.		
10.22	13.94	13.00	13.10	12.00	0.84	1.00	*4.53	5.00	4.53	-----	35 00	1689		
6.94	11.14	11.00	10.66	10.00	0.48	1.00	3.17	3.00	3.17	-----	23 82	1334		
3.92	12.24	11.00	11.20	10.00	1.04	1.00	2.65	2.00	2.65	-----	26 00	1417		
2.70	12.56	11.00	11.34	10.00	1.22	1.00	2.39	2.00	2.39	-----	-----	1926		
4.05	12.06	11.00	11.04	10.00	1.02	1.00	5.23	5.00	5.23	-----	32 75	1415		
4.08	12.41	-----	10.79	10.00	1.62	-----	6.37	5.00	6.37	-----	41 00	1484		
2.92	11.98	11.00	10.92	10.00	1.06	1.00	2.12	2.00	2.12	-----	27 00	1927		
2.10	10.10	9.00	8.82	8.00	1.28	1.00	*4.52	5.00	4.52	-----	28 25	2080		
1.60	12.43	11.00	11.55	10.00	0.88	1.00	4.17	4.00	4.17	-----	25 00	2034		
3.00	12.25	11.00	11.55	10.00	0.70	1.00	4.45	4.00	4.45	-----	30 00	2164		
2.22	12.06	11.00	11.36	10.00	0.70	1.00	2.22	2.00	2.22	-----	-----	2035		
4.11	11.86	11.00	11.10	10.00	0.76	1.00	2.15	2.00	2.15	-----	24 25	1571		
2.27	10.58	10.50	10.02	10.00	0.56	0.50	2.23	2.00	2.23	-----	26 32	1965		
5.97	9.95	10.50	*9.47	10.00	0.48	0.50	3.85	2.00	3.85	-----	30 00	1731		
3.97	13.26	12.50	12.66	12.00	0.60	0.50	5.20	5.00	5.20	-----	50 00	1736		
1.75	10.74	11.00	10.48	10.00	0.26	1.00	4.11	4.00	3.30	0.81	25 00	2036		
2.71	13.67	13.00	13.25	12.00	0.42	1.00	4.89	4.00	4.89	-----	28 00	1900		
3.19	12.79	13.00	12.49	12.00	0.30	1.00	4.24	4.00	4.24	-----	30 00	1406		
3.66	12.70	13.00	12.36	12.00	0.34	1.00	4.39	4.00	4.39	-----	-----	1638		
1.00	13.93	12.50	12.69	12.00	1.24	0.50	5.18	5.00	5.18	-----	25 00	2171		
3.74	11.94	-----	11.08	10.00	0.86	-----	4.67	4.00	4.67	-----	33 00	1686		
2.84	11.36	-----	10.72	10.00	0.64	0.50	2.06	2.00	2.06	-----	25 75	1632		
4.72	11.36	-----	10.64	10.00	0.72	0.50	2.32	2.00	2.32	-----	28 50	1350		
3.25	12.05	11.00	11.47	10.00	0.58	1.00	2.37	2.00	2.37	-----	32 50	1695		
3.32	12.63	-----	11.83	10.00	0.80	-----	2.37	2.00	2.37	-----	28 00	1742		
1.74	9.42	9.00	8.38	8.00	1.04	1.00	5.71	5.00	5.71	-----	30 50	1447		

*Deficient.

TABLE VI.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1341	PATUXENT GUANO COMPANY, BALTIMORE, MD. Alsatian Potash Mixture, -----	H. J. Linder, Potts Grove, -----
1754 1459	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD. Piedmont Acidulated Phosphate and Potash, Piedmont I. X. L. Crop Grower, -----	Omwake Brothers, Greencastle, ----- John G. Simpson, Huntingdon, -----
2167 1362	RASIN-MONUMENTAL COMPANY, SUB- SIDIARY OF THE VIRGINIA-CAROLINA CHEMICAL CO., BALTIMORE, MD. Rasin's Phosphate and Potash Fertilizer, Rasin's Special Potash Mixture, -----	H. B. Low & Son, Orangeville, ----- E. H. Keen & Son, Parkesburg, -----
1434 2125	READING BONE FERTILIZER CO., READING, PA. Economy Brand, ----- Economy Brand, -----	Phaon Heffner, Kutztown, ----- Gordon Kichline, Bangor, -----
1527	READING CHEMICAL CO., READING, PA. Reading Crop Producer, -----	C. Gumare, Factoryville, -----
2157	ROBERT A. REICHARD, ALLENSTOWN, PA. Reichards Farmers Favorite, -----	Tilden E. Kuhns, Alburtis, -----
2127 1827 2083	F. S. ROYSTER GUANO COMPANY, BAL- TIMORE, MD. Royster's 8-5 Phosphate and Potash, ----- Royster's 10-2 Phosphate and Potash, ----- Royster's 12-5 Phosphate and Potash, -----	Charles Wilhelm, Bethlehem, ----- J. M. Rider, Millville, ----- W. T. Roth, Conyngham, -----
2111	THE SCOTT FERTILIZER CO., ELK- TON, MD. Scott's Soluble Phosphate and Potash, -----	M. L. Rosenberger, Quakertown, -----
1499 1863 1860	SWIFT & COMPANY, BALTIMORE, MD. Swift's Farmers Home 0-10-4, ----- Swift's Special High Grade Phosphate and Potash. Swift's Special Phosphate and Potash, -----	D. L. Hertzler, Mechanicsburg, ----- Maurice Flickinger, Lebanon, ----- Maurice Flickinger, Lebanon, -----
1821 1561	I. P. THOMAS & SON CO., PHILADEL- PHIA, PA. Alkaline Fertilizer 0-10-2, ----- Alkaline Fertilizer 0-10-2, -----	Geo. B. Kase, Danville, ----- Walker, Diehl & Walker, Richmond Furn- ace.
2208 1621 1355	Alkaline Fertilizer 0-10-2, ----- Special Alkaline 0-12-3, ----- Special Alkaline 0-12-3, -----	A. E. Woodruff & Son, Wysox, ----- Theo. M. Griffith & Son, Downingtown, ----- F. E. Martz, Washingtonville, -----
1266 1386	VIRGINIA-CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD. V. C. Special Phosphate and Potash, ----- V. C. Standard Phosphate and Potash, -----	Lawrence Schaffer, Tulpehocken, ----- Lawrence Schaffer, Tulpehocken, -----
1507 1750 1503 1998	WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA. Wacco Double Potash Compound, ----- Wacco Special Potash Mixture, ----- Wacco Special Potash Mixture, ----- Wacco Special Potash Mixture, -----	Geo. P. Livingston, East Berlin, ----- E. S. Kelly, Gettysburg, ----- Geo. P. Livingston, East Berlin, ----- Quarryville Farmers Association, Quarry- ville.

POTASH FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.		
	Total.		Available.		Insoluble.		Present as muriate.		Present as sulphate.					
	Found.	Guaranteed.	Found.	Found.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.				
6.49	9.90	9.00	9.06	8.00	0.84	1.00	5.00	5.00	-----	28 58	1341			
1.80 3.70	11.82 9.12	-----	10.04 *8.72	10.00 10.00	0.88 0.40	-----	*1.66 2.98	2.00 3.00	1.66 2.98	-----	26 00 30.00	1754 1459		
1.47 4.56	11.26 10.13	11.00 9.00	*9.80 8.87	10.00 8.00	1.46 1.26	1.00 1.00	2.07 5.28	1.00 5.00	2.07 5.28	-----	28 50 29 50	2167 1362		
6.91 2.52	10.90 10.87	11.00 11.00	10.36 10.15	10.00 10.00	0.54 0.72	1.00 1.00	3.83 4.44	4.00 4.00	3.83 4.44	-----	30 50 30 25	1434 2125		
6.82	9.27	-----	8.45	8.00	0.82	-----	5.77	5.00	5.77	-----	47 00	1527		
1.17	9.02	9.00	8.68	8.00	0.34	1.00	5.10	5.00	5.10	-----	25 50	2157		
0.77 3.42 5.20	8.39 11.02 14.07	8.50 10.50 12.50	8.11 10.32 13.01	8.00 10.00 12.00	0.28 0.70 1.06	0.50 0.50 0.50	5.02 2.15 4.85	5.00 2.00 5.00	5.02 2.15 4.85	-----	27 05 26 60 2033	2127 1827 1863		
1.53	12.22	-----	11.50	10.00	0.72	-----	5.28	5.00	5.28	-----	29 25	2111		
1.41 2.24	11.62 13.32	10.00 -----	11.34 12.98	10.00 12.00	0.28 0.34	-----	4.09 5.97	4.00 5.00	4.09 5.97	-----	28 00 31 00	1499 1863		
1.22	11.04	10.00	10.74	10.00	0.30	-----	2.05	2.00	2.05	-----	26 00	1860		
3.85 4.67	11.93 12.39	10.50 -----	10.69 11.23	10.00 10.00	1.24 1.16	0.50 -----	2.18 2.17	2.00 2.00	2.18 2.17	-----	27 75 25 00	1821 1561		
2.55 6.27 9.07	11.37 13.28 13.58	10.50 12.50 12.50	10.85 12.90 13.16	10.00 12.00 12.00	0.52 0.38 0.42	0.50 0.50 0.50	2.34 3.08 2.86	2.00 3.00 3.00	2.39 3.08 2.86	-----	29 00 34 00 29 25	2208 1621 1355		
4.99 6.20	12.26 11.46	11.00 11.00	11.26 10.12	10.00 10.00	1.00 1.34	1.00 1.00	4.90 2.41	5.00 2.00	4.90 2.41	-----	29 50 26 00	1263 1386		
2.75 3.42 3.07 2.30	11.62 8.80 9.00 9.14	----- 8.46 9.02 9.00	11.18 8.00 8.72 8.76	10.00 0.34 1.00 0.38	0.44 1.00 4.54 1.00	----- 4.20 4.00 4.00	1.84 4.20 4.00 4.00	2.00 4.00 4.00 4.00	1.84 4.20 4.54 4.00	-----	25 35 27 00 26 00 28 00	1507 1750 1503 1998		

*Deficient.

TABLE VI.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1652	YORK CHEMICAL WORKS, YORK, PA. Ten and Two, -----	Kimmerhings Grange, Lebanon, -----
1401	Twelve and Two, -----	E. S. Berkey, Strausstown, -----
1983	Twelve and Four, -----	J. Harry Summy, Landisville, -----
		Average, -----

POTASH FERTILIZERS—Concluded.

Moisture.	PHOSPHORIC ACID.							POTASH.					Chemist's number.	
	Total.		Available.		Insoluble.			Guaranteed.		Present as muriate.				
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
2.10	11.33	10.00	10.79	10.00	0.54	—	2.26	2.00	2.26	—	24.67	—	1652	
4.59	13.23	12.00	12.55	12.00	0.68	—	2.36	2.00	2.36	—	—	—	1401	
2.35	13.94	12.00	13.20	12.00	0.74	—	4.60	4.00	4.60	—	32.00	—	1983	
3.51	11.35	—	10.60	—	0.75	—	3.66	—	—	—	\$29.66	—	—	

TABLE NO. VII.—MISCEL-

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
NITRATE OF SODA		
1520	THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO NEW YORK, N. Y. Nitrate of Soda, -----	E. W. White, Adelia, -----
1724	THE HUBBARD FERTILIZER CO., BAL- TIMORE, MD. Hubbard's Nitrate of Soda, -----	D. Z. Miller, Ranson, -----
2063	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA. Nitrate of Soda, -----	Jno. Kunkle, Mahanoy City, -----
1328	NITRATE AGENCIES CO., NEW YORK, N. Y. Naco Brand Nitrate of Soda, -----	G. A. Spence, Waverly, -----
1719	READING BONE FERTILIZER CO., READING, PA. Nitrate of Soda, -----	N. L. Chapman, Scranton, C. Gumare, Fleetwood, -----
1525	Nitrate of Soda, -----	
1318	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Nitrate of Soda, -----	
1728	Nitrate of Soda, -----	W. Headly, Waymarth, I. G. Williams, Ariel, -----
1320	YORK CHEMICAL WORKS, YORK, PA. Nitrate of Soda, -----	Hull Brothers, Waymarth, Wm. Romig, Douglassville, -----
1855	Nitrate of Soda, -----	Average, -----
SULPHATE OF AMMONIA.		
1526	THE BARRETT COMPANY, NEW YORK, N. Y. Areadian Sulphate of Ammonia, -----	C. Gumare, Fleetwood, -----
1729	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Sulphate of Ammonia, -----	I. G. Williams, Ariel, -----
	TANKAGE.	
1722	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y. Lister's Ground Tankage, -----	G. R. Clark, Scranton, -----
	THE BERG COMPANY, PHILADELPHIA, PA.	
1374	Ground Animal Tankage, -----	Pomona No. 3 Grange Exchange, West Chester.
1660	MILLER FERTILIZER COMPANY, BALTIMORE, MD. 6% Tankage, -----	State Insane Asylum, Wernersville, -----
	THE SCOTT FERTILIZER CO., ELKTON, MD.	
1258	Animal Tankage, -----	Edw. W. Rupert, Oxford, -----
	Average, -----	

LANEOUS FERTILIZERS.

Moisture.	NITRO-GEN.			PHOSPHORIC ACID.						POTASH.				Chemist's number.	
	Found.	Guaranteed.	Found.	Total.			Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.	
				Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.					
0.50	15.80	15.00		%	%	%	%	%	%	%	%	%	\$ 80.00	1530	
0.12	15.92	15.22											66.00	1724	
0.29	15.90	14.81											66.00	2063	
0.57	15.62	15.00											64.00	1328	
0.52	15.94	15.00											69.00	1719	
0.65	15.72	15.00											78.00	1525	
0.13	15.84	15.00											90.00	1318	
0.15	15.90	15.00											62.00	1728	
0.97	15.66	15.00											80.00	1320	
0.40	15.72	15.00											54.24	1855	
0.43	15.80												\$70.92	---	
0.07	21.32	20.75											75.00	1526	
0.40	21.72	20.56											98.00	1729	
0.23	21.52												\$86.50	---	
4.84	6.00	4.94	14.48	13.00									46.00	1723	
3.54	4.41	4.53	16.10	15.00									39.00	1374	
4.60	*4.59	4.94	4.34	4.00										1960	
7.36	*6.04	7.40	†*7.14										48.00	1358	
5.08	5.26		10.52										\$44.33	---	

*Deficient.

†Reg. Guar.

TABLE VII.—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
MURIATE OF POTASH.		
1461 1729 2123	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y. Muriate of Potash, ----- Muriate of Potash, ----- Muriate of Potash, -----	H. F. Blair, Huntingdon, ----- G. R. Clark, Scranton, ----- Clarence Hartzell, Bangor, -----
1581	LEBANON FERTILIZER WORKS, LEBANON, PA. Levan's Muriate of Potash, -----	I. E. Artz, Hegins, -----
1959	MILLER FERTILIZER COMPANY, BALTIMORE, MD. Muriate of Potash, -----	State Insane Asylum, Wernersville, -----
1856	YORK CHEMICAL WORKS, YORK, PA. Muriate of Potash, -----	Wm. Romig, Douglassville, -----
MISCELLANEOUS.		
1465 1767	BAUGH & SONS COMPANY, PHILADELPHIA, PA. Baugh's Pure Bone and Muriate Potash Mixture. Baugh's Pure Bone and Muriate Potash Mixture.	J. L. Bergantz, Huntingdon, ----- James L. Pennock, Chatham, -----
2086	BONE DRY LIME CORPORATION, CASSADAGA, N. Y. Humo-Phos, -----	J. A. Adams, Mercer, -----
1615 1994	THE JAS. G. DOWNWARD CO., COATESVILLE, PA. Special Mixture, ----- Special Mixture, -----	M. S. Bailey, Malvern, ----- John Greenleaf, Quarryville, -----
2174	FRED E. LORD, ESPY, PA. Manure Salt, -----	Fred E. Lord, Espy, -----
1599	MILLER FERTILIZER COMPANY, BALTIMORE, MD. Miller's Bone Product, -----	Miller T. Harkins, Hickory Hill, -----
1356	THE SCOTT FERTILIZER CO., ELKTON, MD. Bone and Acid Phosphate Half—Half, -----	Edw. W. Rupert, Oxford, -----

FERTILIZERS—Concluded.

Moisture.	NITRO-GEN.								PHOSPHORIC ACID.								POTASH.			
	Found.		Guaranteed.		Found.		Guaranteed.		Found.		Guaranteed.		Found.		Guaranteed.		Present as muriate.		Present as sulphate.	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	§	of selection.	Selling price per ton at place	
0.28																	62 00	1461		
0.30																	100 00	1720		
0.45																	65 00	2123		
4.92																	70 00	1581		
0.42																		1959		
0.27																	56 00	1856		
1.10																	870 60			
4.50	2.51	2.05	21.87	20.00													48 00	1465		
6.22	2.21	2.06	22.99	20.00													46 00	1767		
3.80	*0.61	0.82	9.45	9.64	1.17	0.64	8.28	9.00									32 00	2086		
4.17	0.87		9.06		8.80		0.26		6.96		6.96							1615		
5.20	1.74		8.90		8.54		0.36		0.64		0.20		0.44		31 00		1994			
1.02																	34 00	2174		
3.47	4.65		19.52		12.85		6.67										39 00	1599		
3.19	2.11	1.87	20.10	18.50													34 00	1356		

*Deficient.



